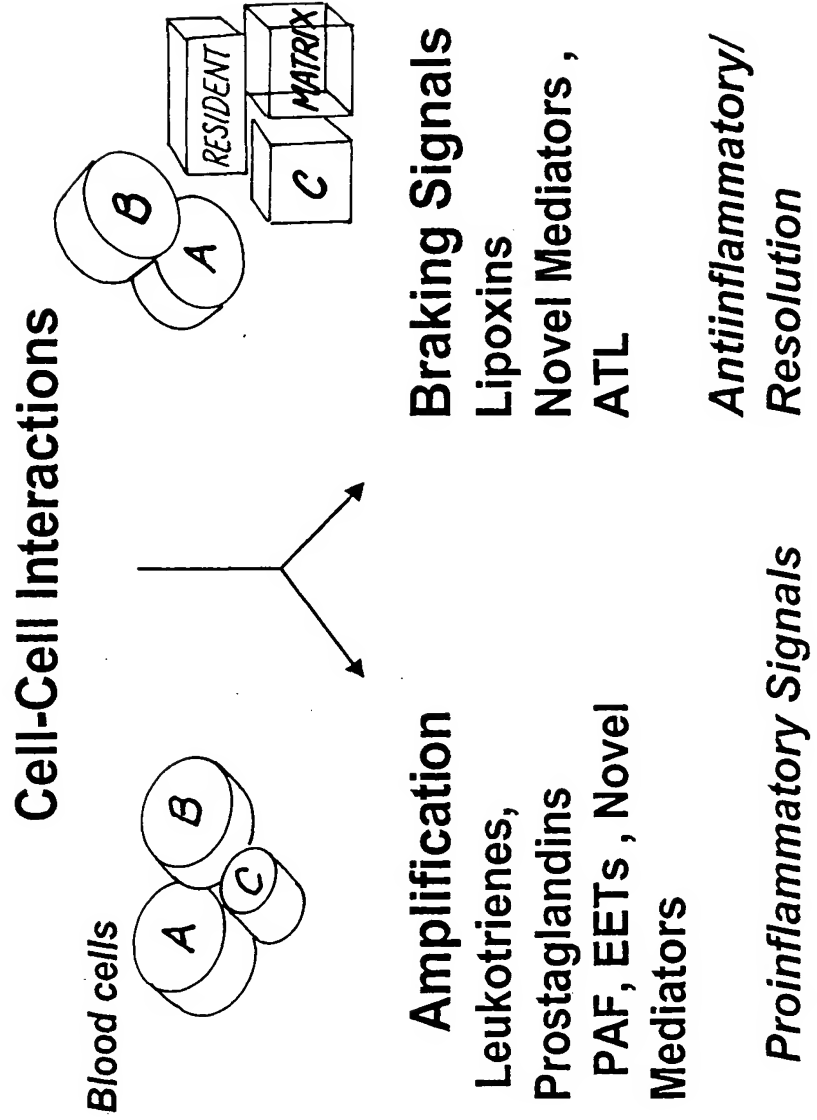
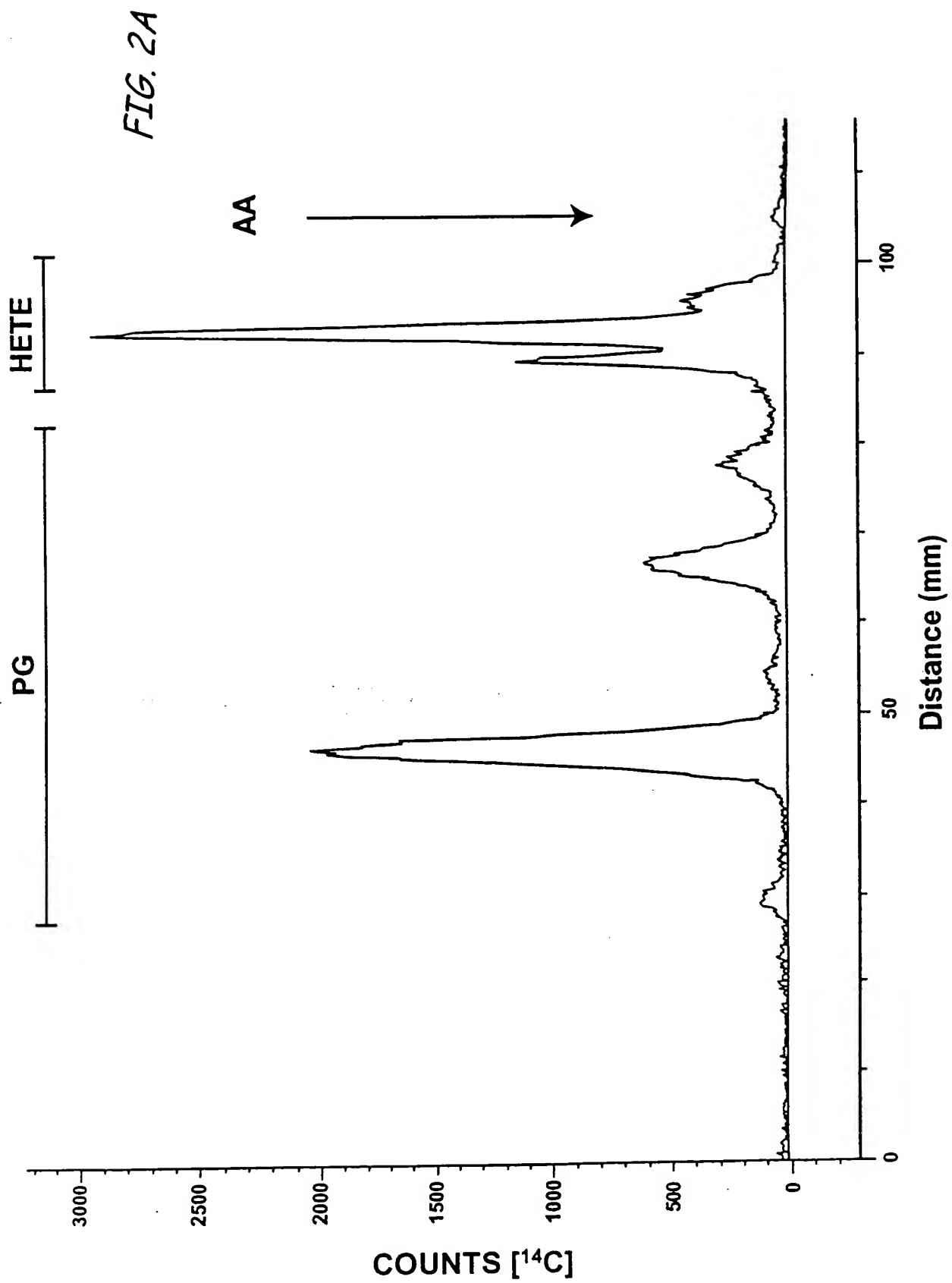
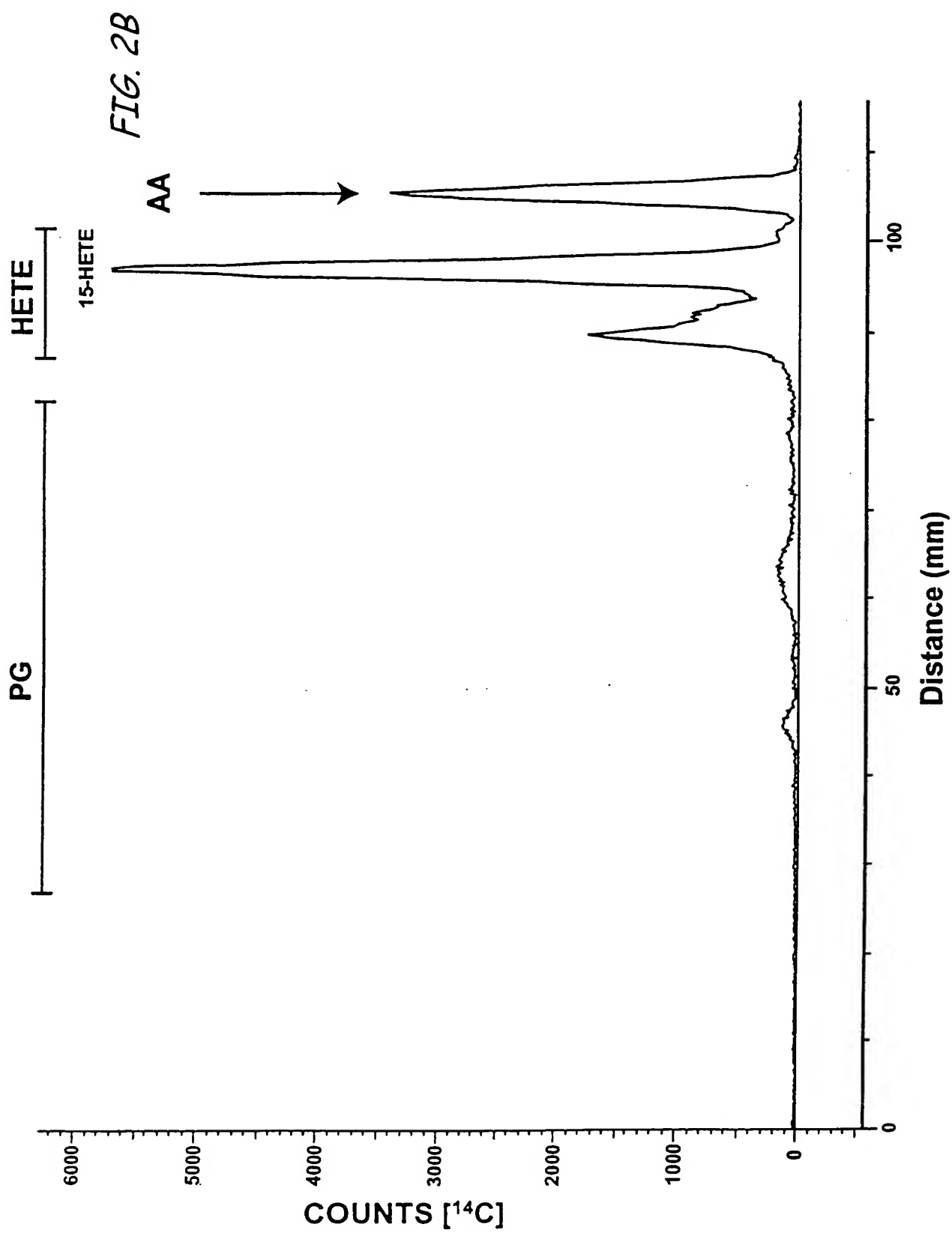


FIG. 1

Transcellular LM Biosynthesis







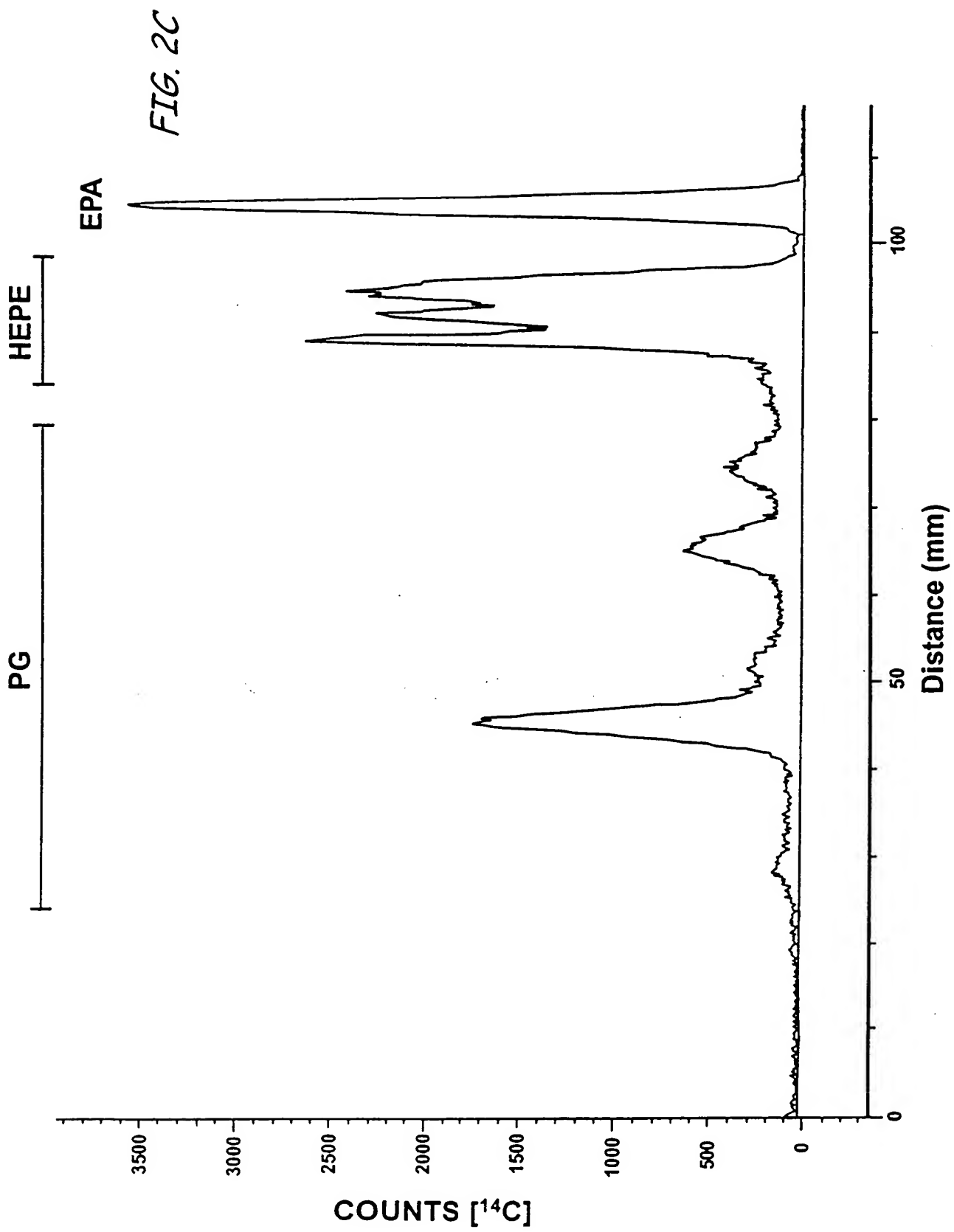
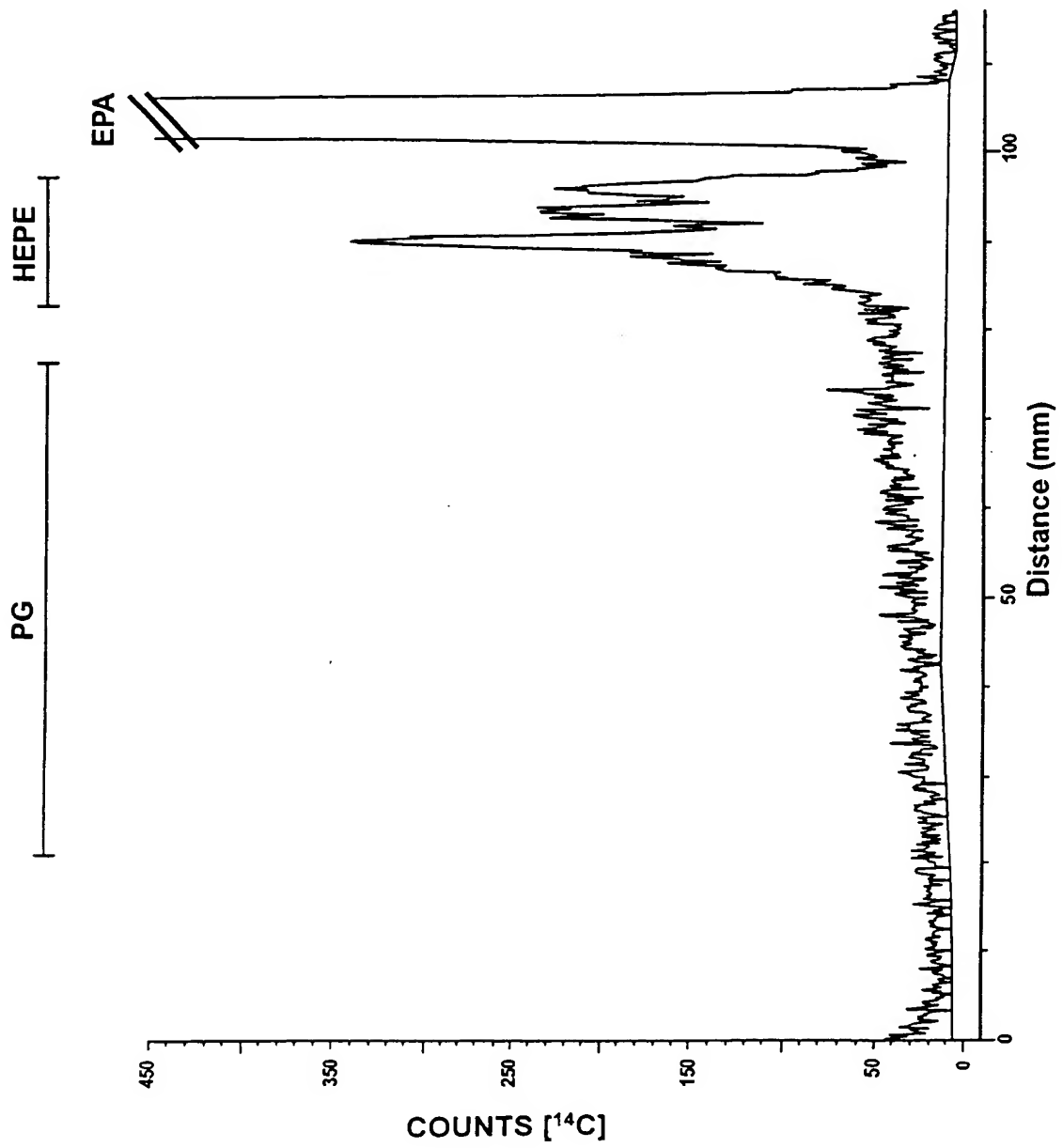


FIG. 2D



6/51

FIG. 3A

Conversion of EPA by *B. megaterium*

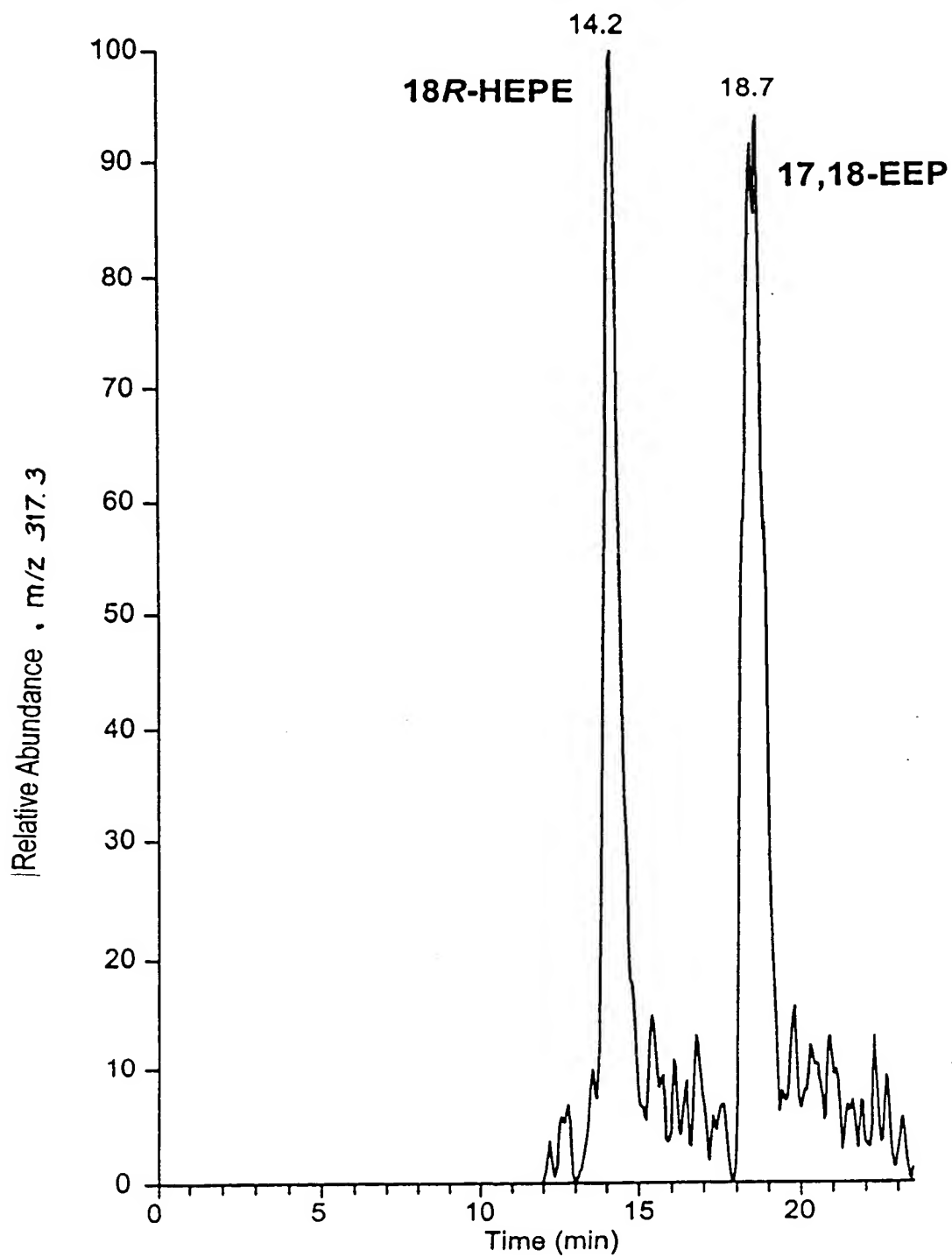


FIG. 3B

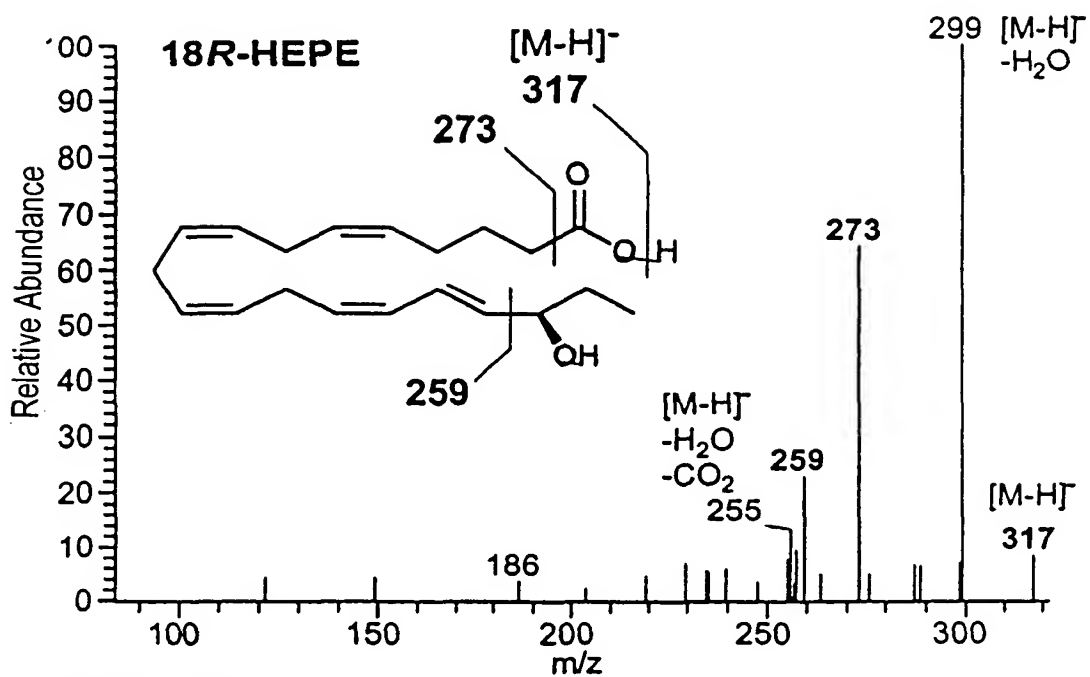
Conversion of EPA by *B. megaterium*

FIG. 3C

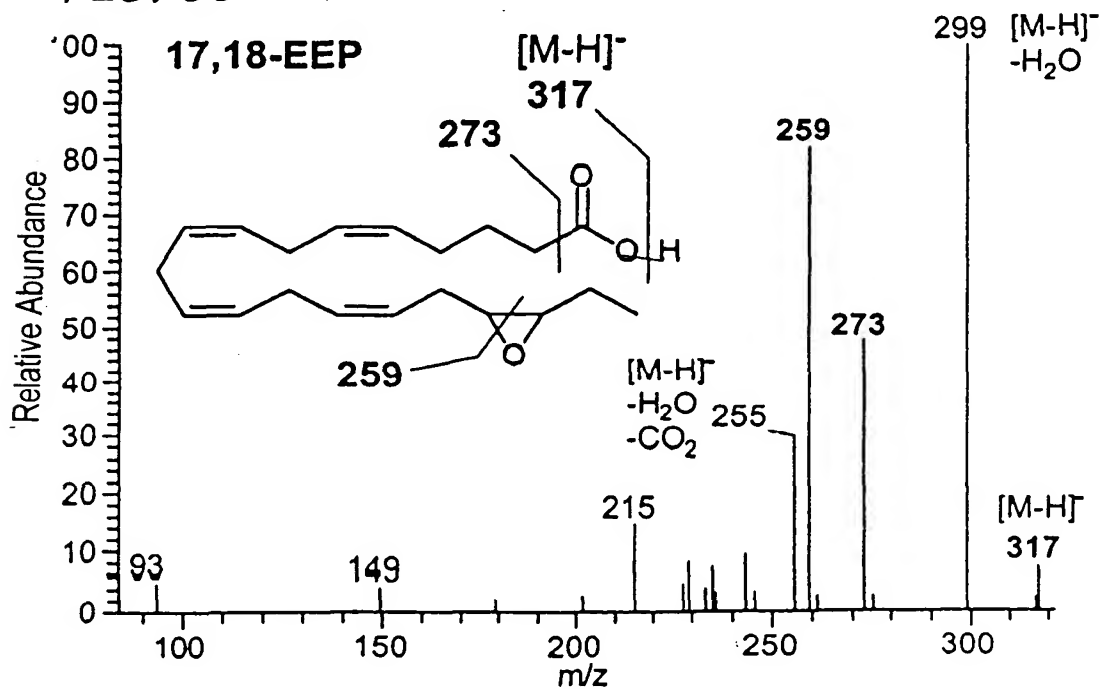


FIG. 4A

18R-HEPE

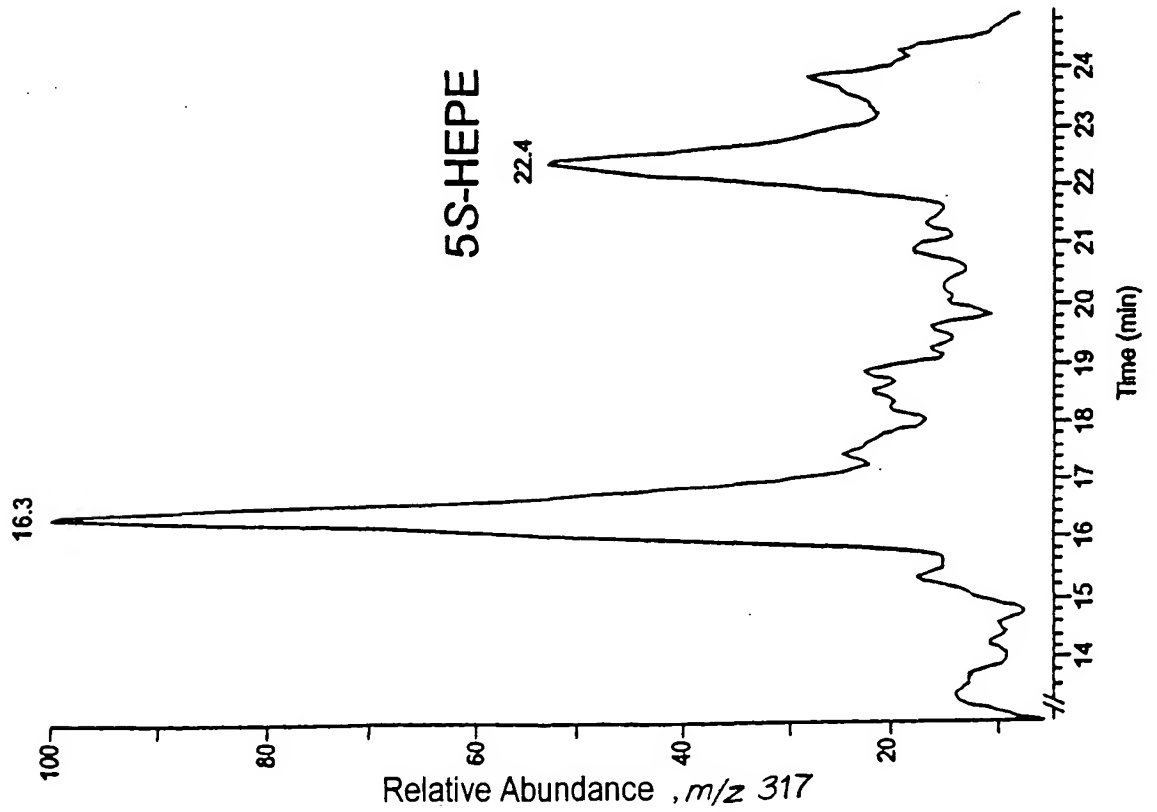


FIG. 4B

MS/MS 18R-HEPE

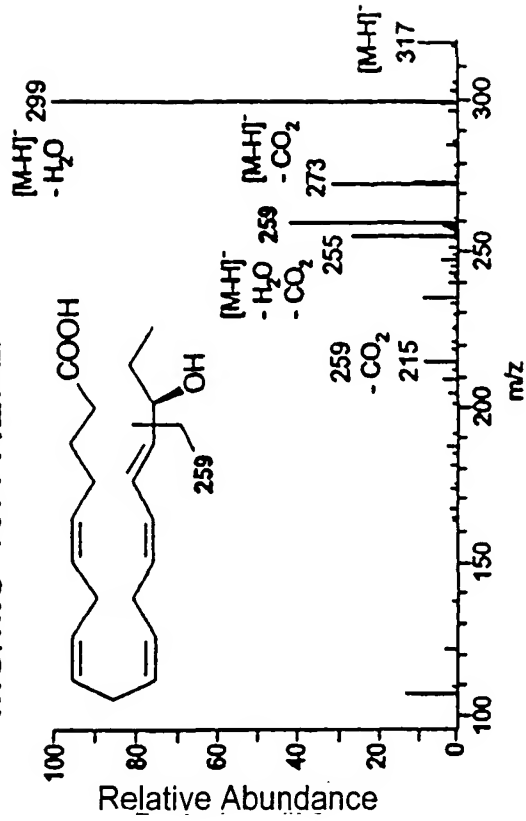
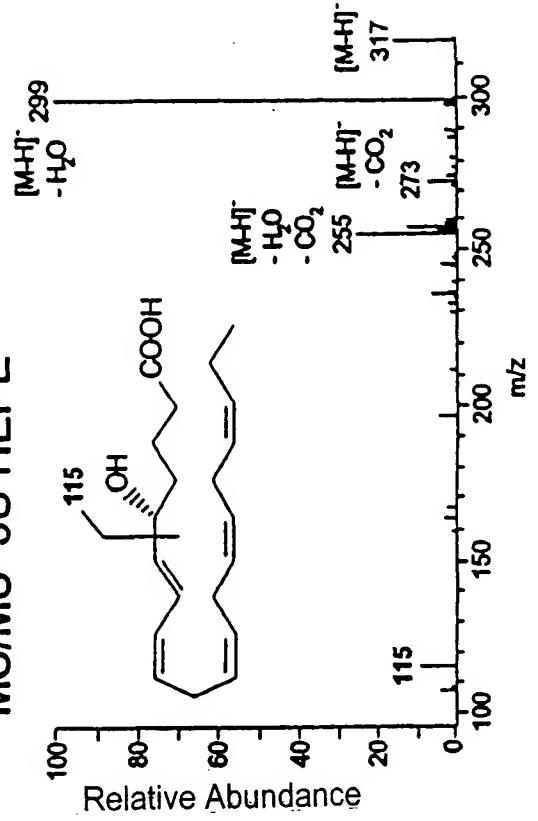


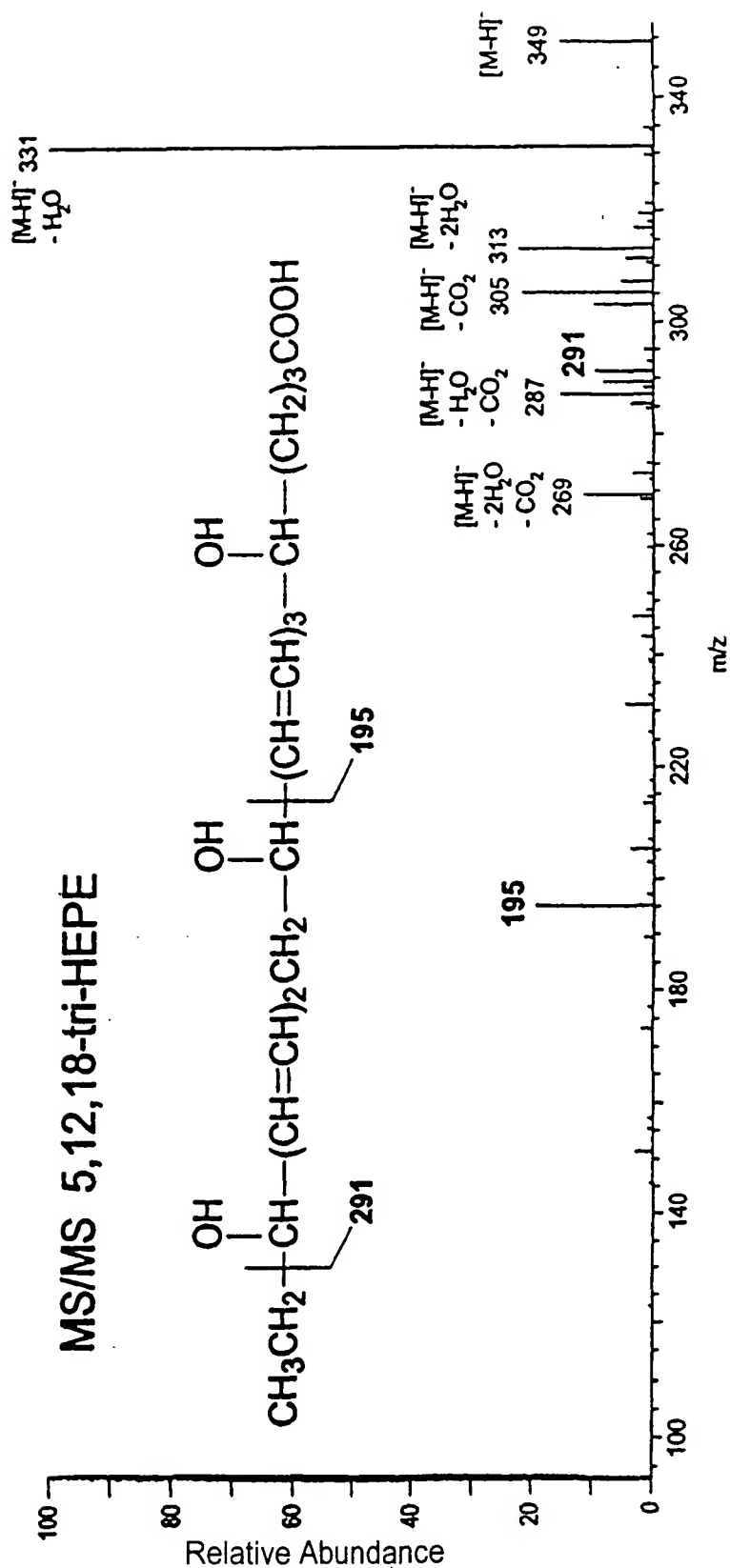
FIG. 4C

MS/MS 5S-HEPE

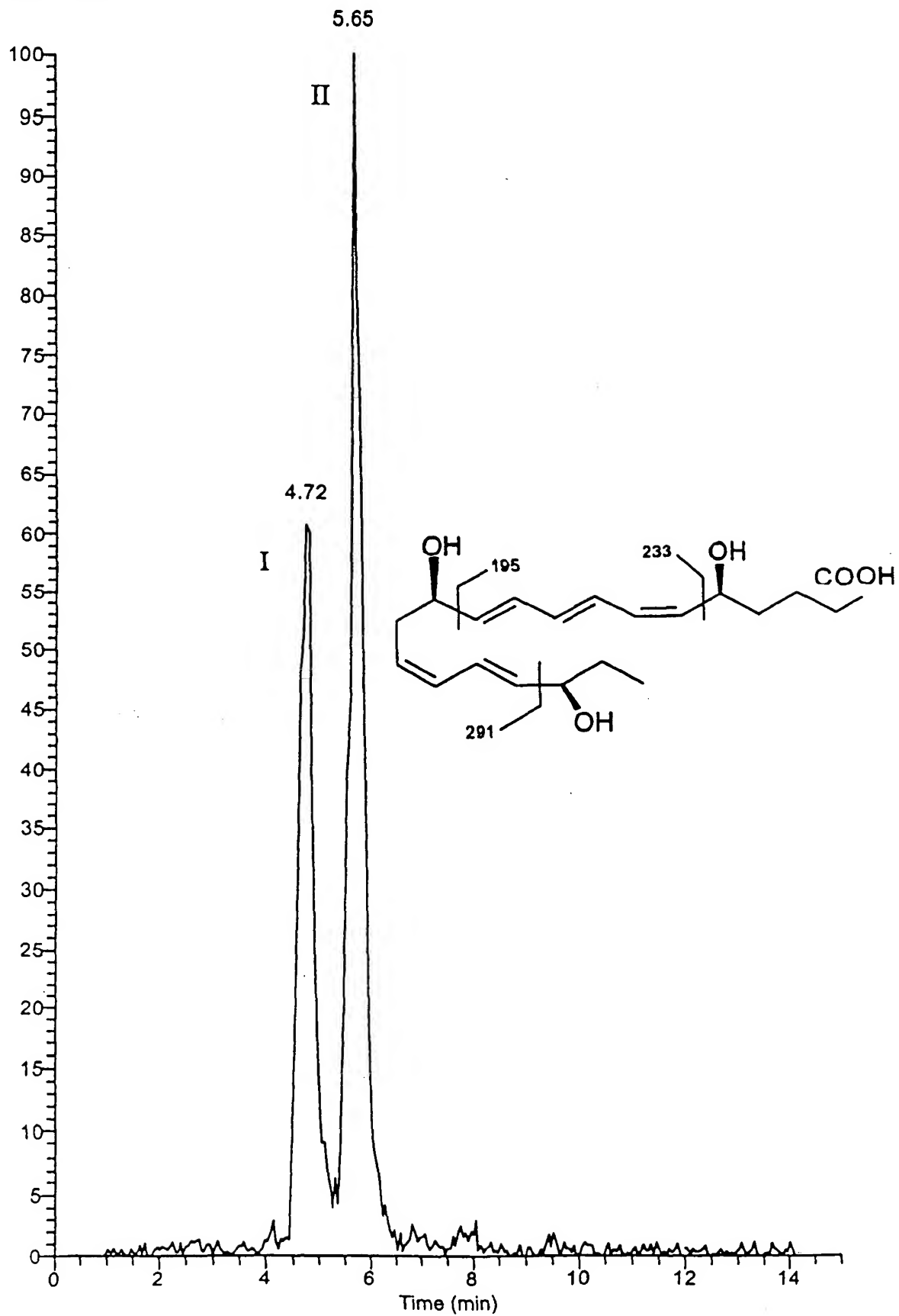


9/51

FIG. 4D



10/51
FIG. 5A MS 5,12,18-tri-HEPE from *B. megaterium*



11/51

FIG. 5B

I MS/MS m/z 349.4

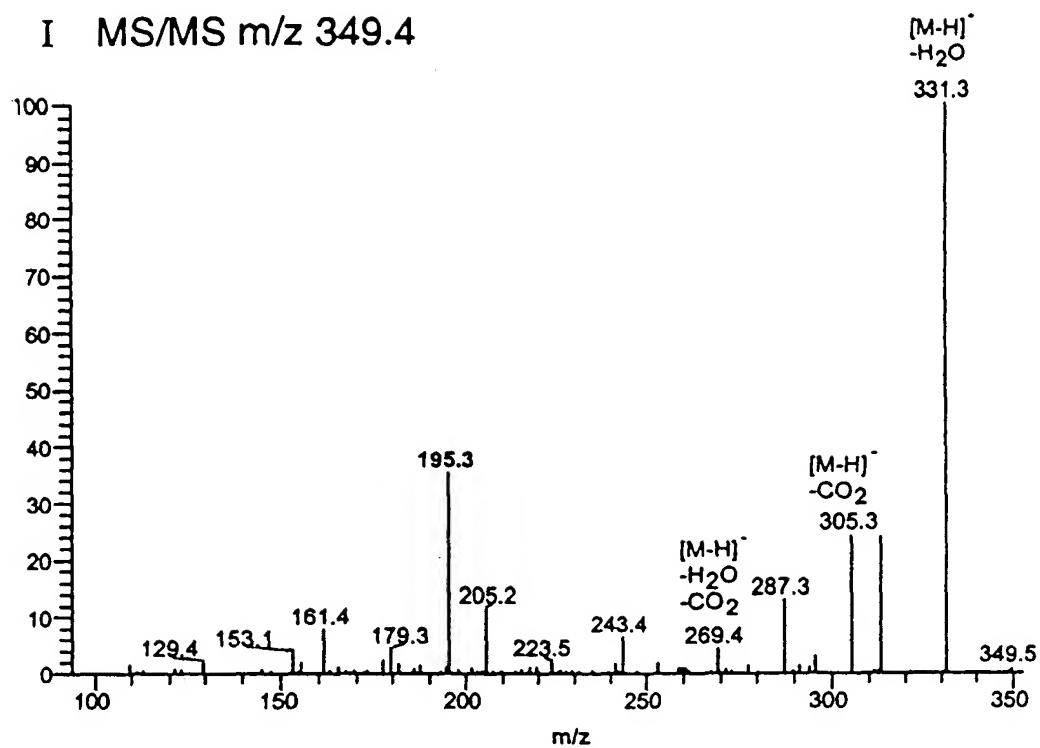


FIG. 5C

II MS/MS m/z 349.4

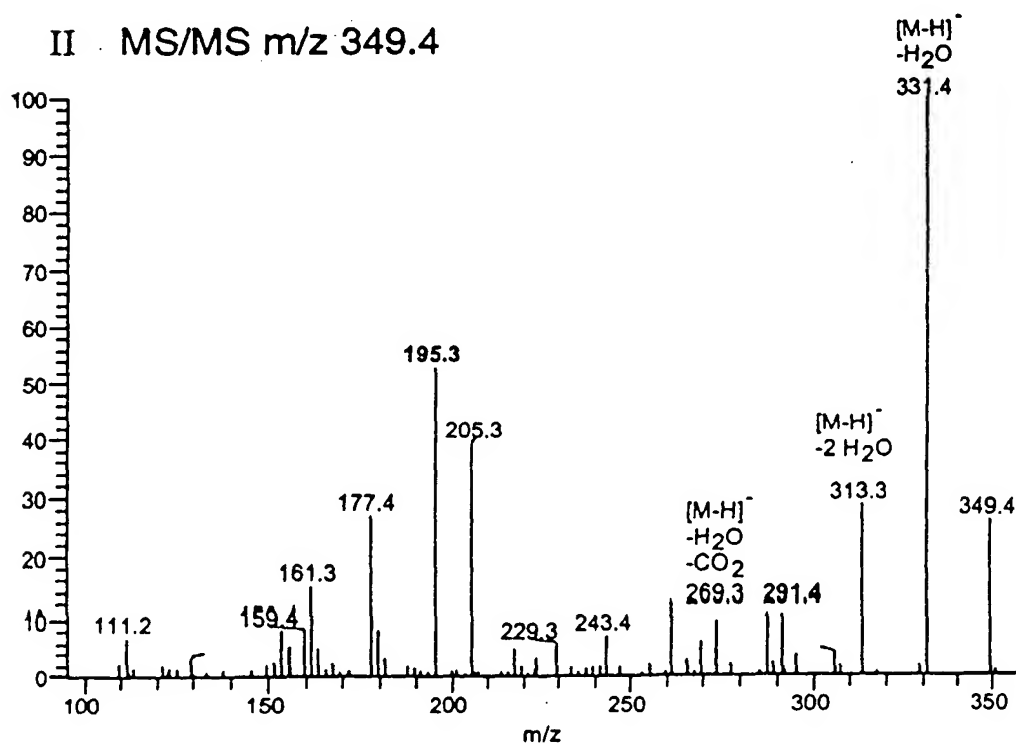


FIG. 6

Murine Dorsal Air Pouch

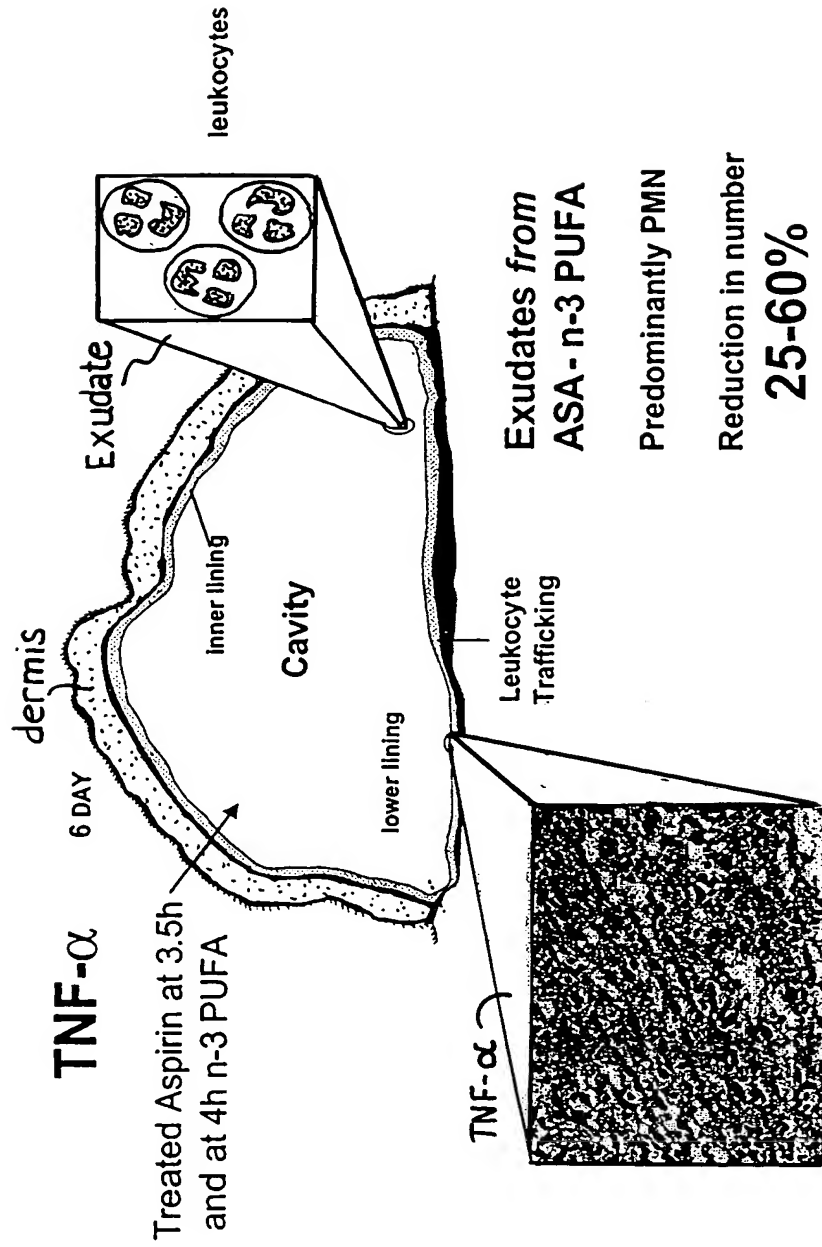


FIG. 7A

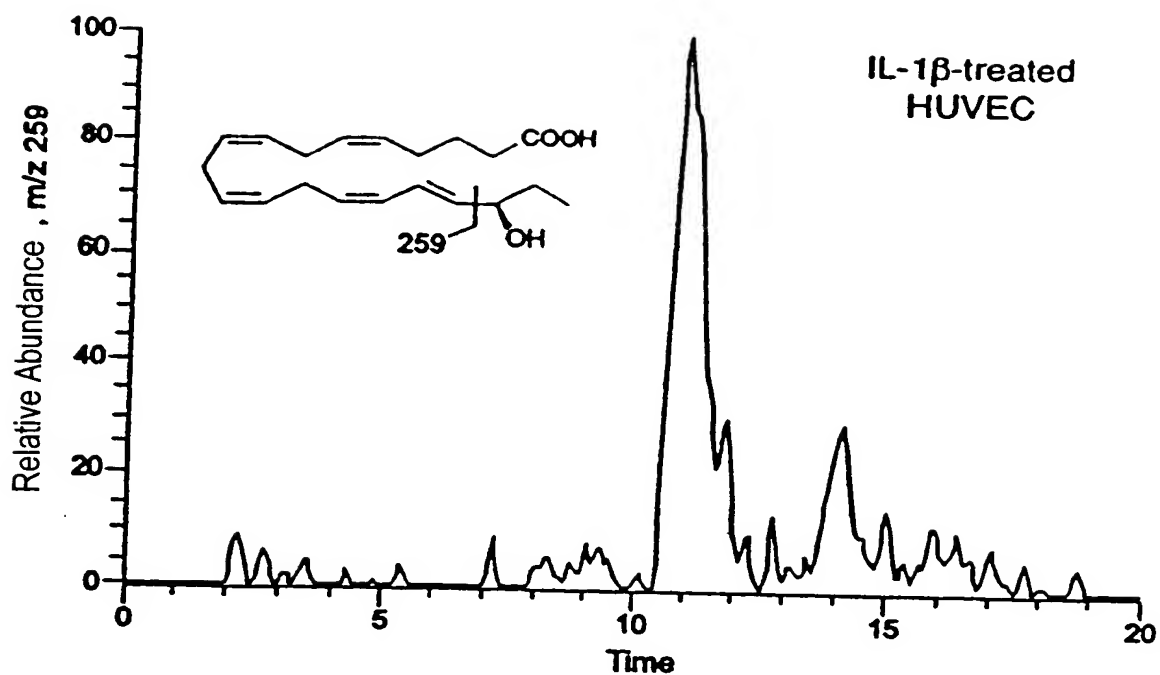


FIG. 7C

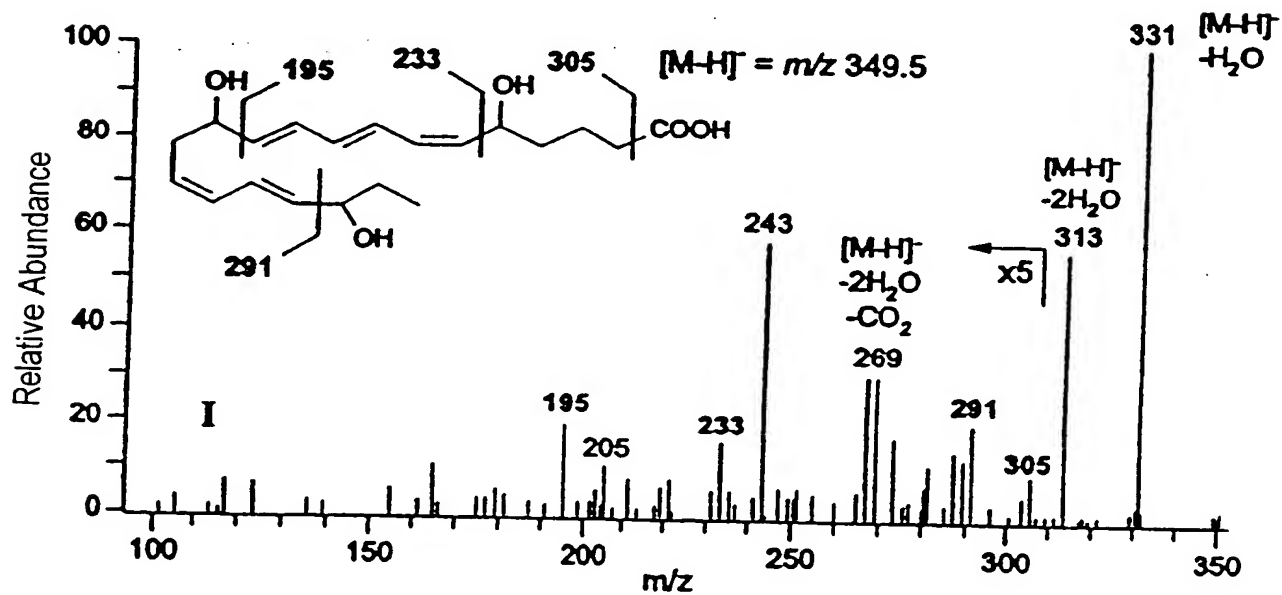


FIG. 7B

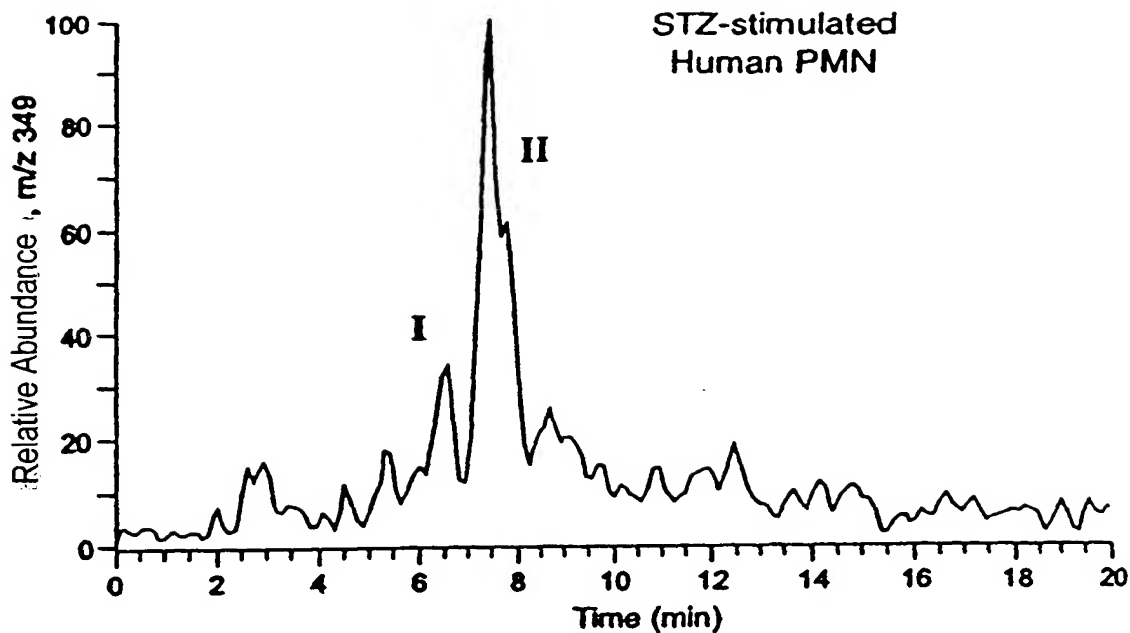
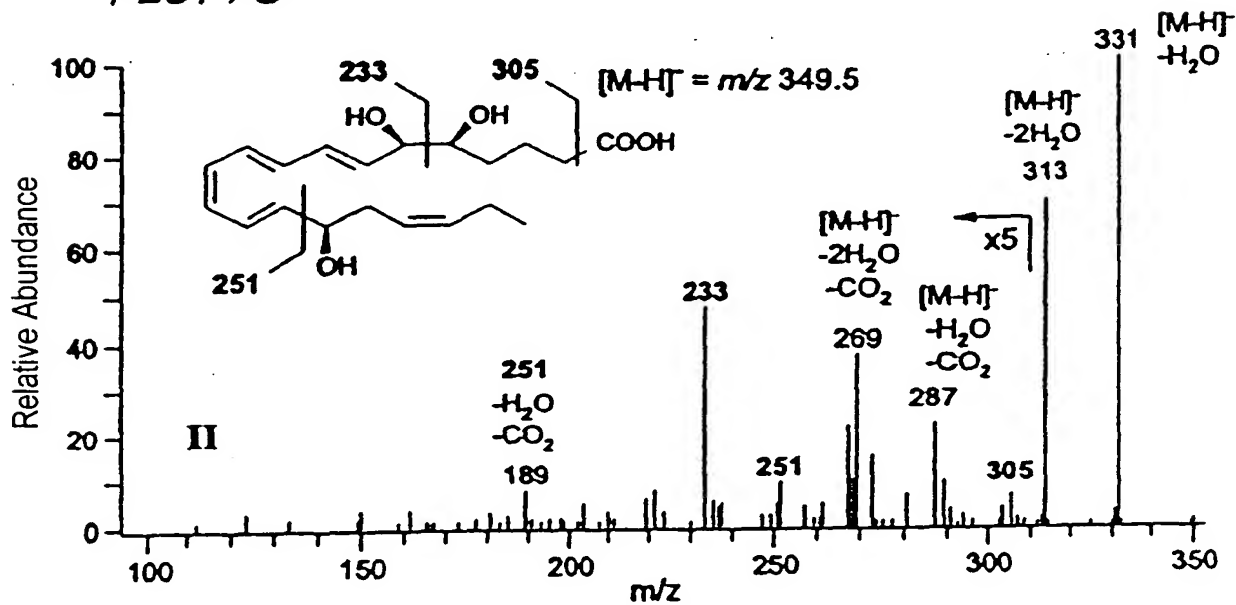


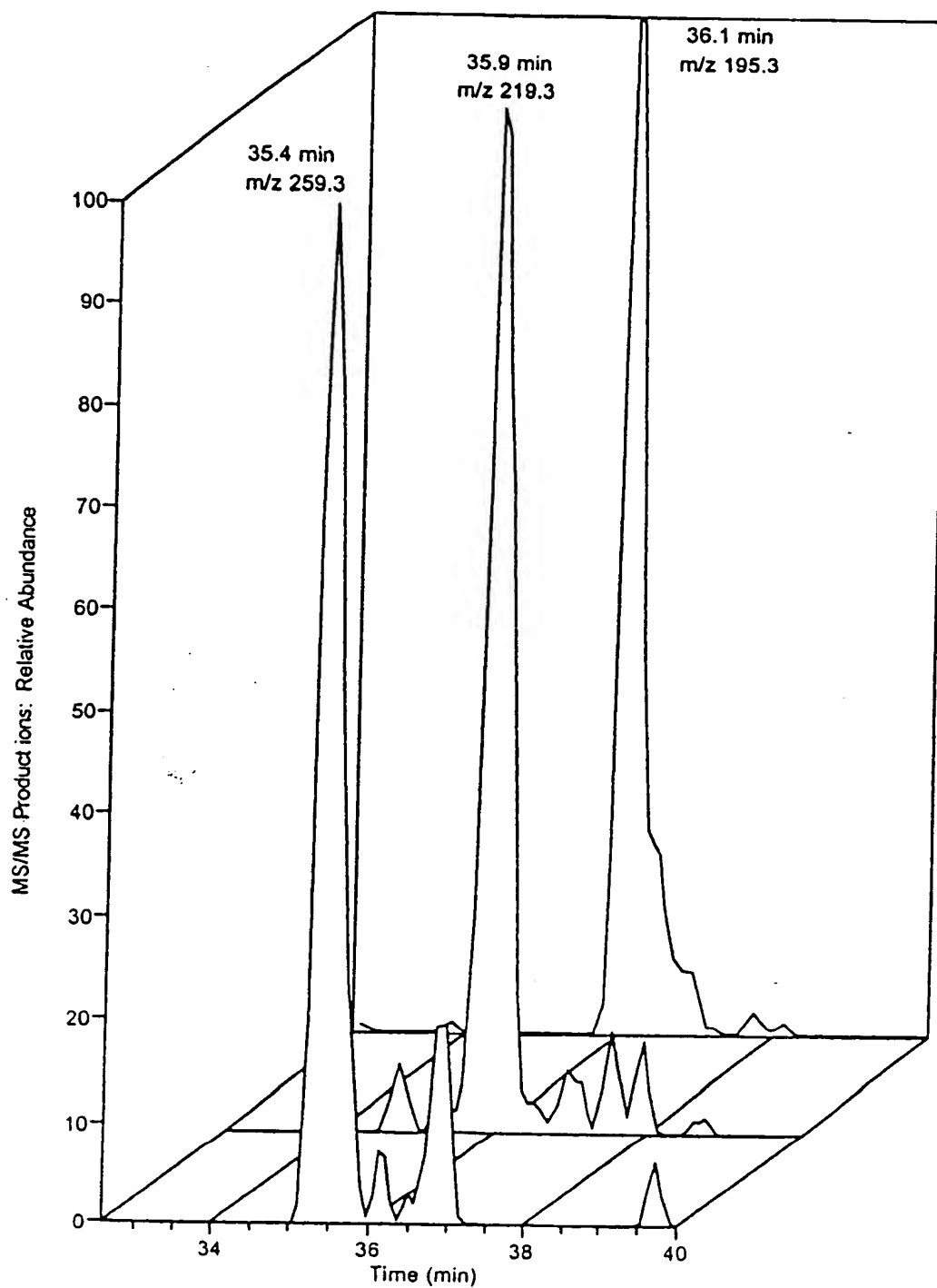
FIG. 7D



15/51

FIG. 8A

Mono-HEPES: Enzymatic Products from Acetylated COX 2 and EPA



16/51

FIG. 8B

Mono-HEPES: Enzymatic Products from Acetylated COX 2 and EPA

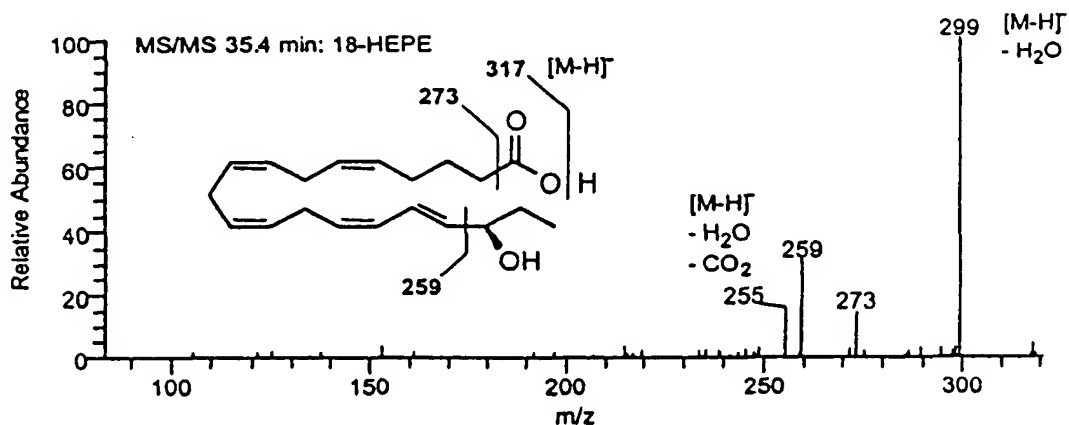


FIG. 8C

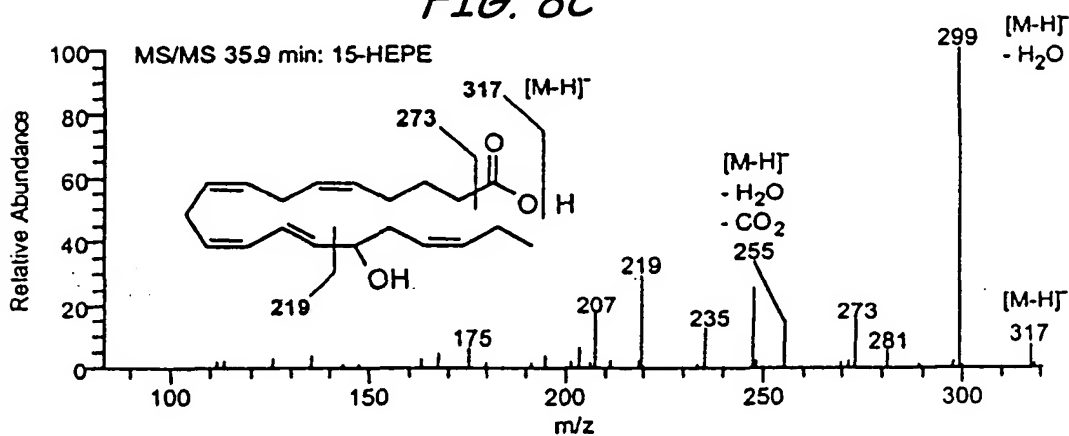
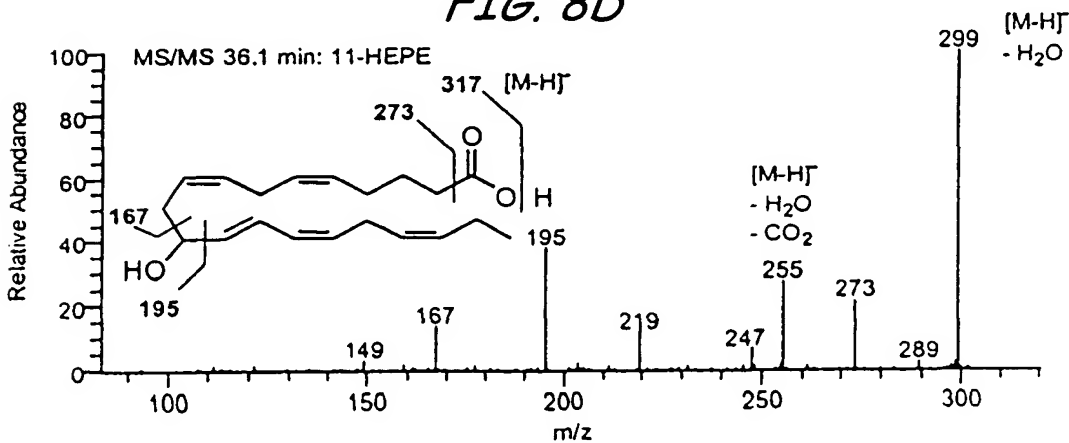


FIG. 8D



17/51

FIG. 9A

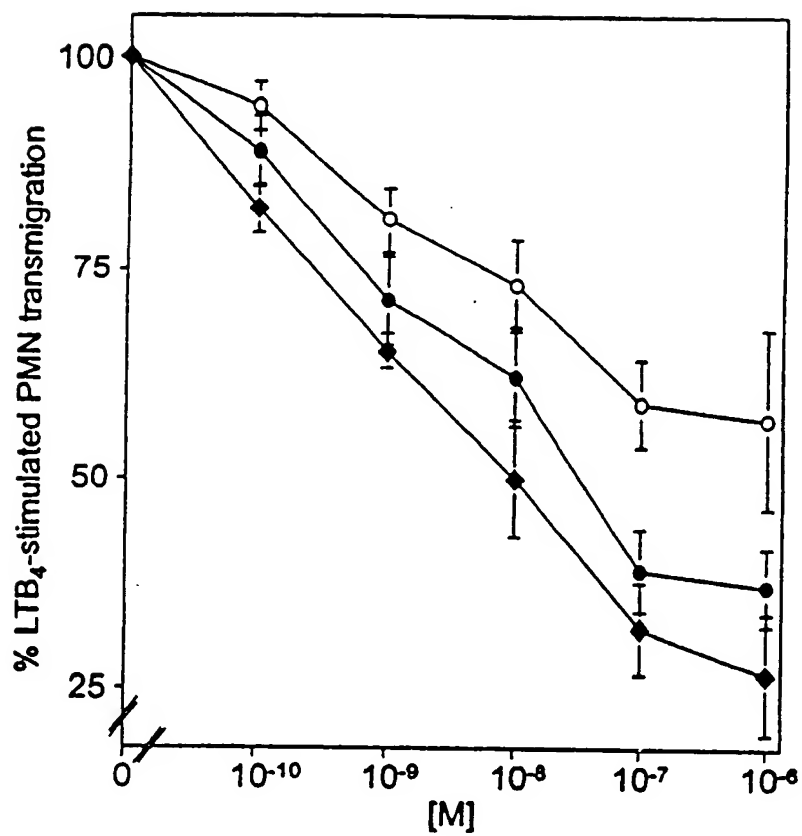


FIG. 9B

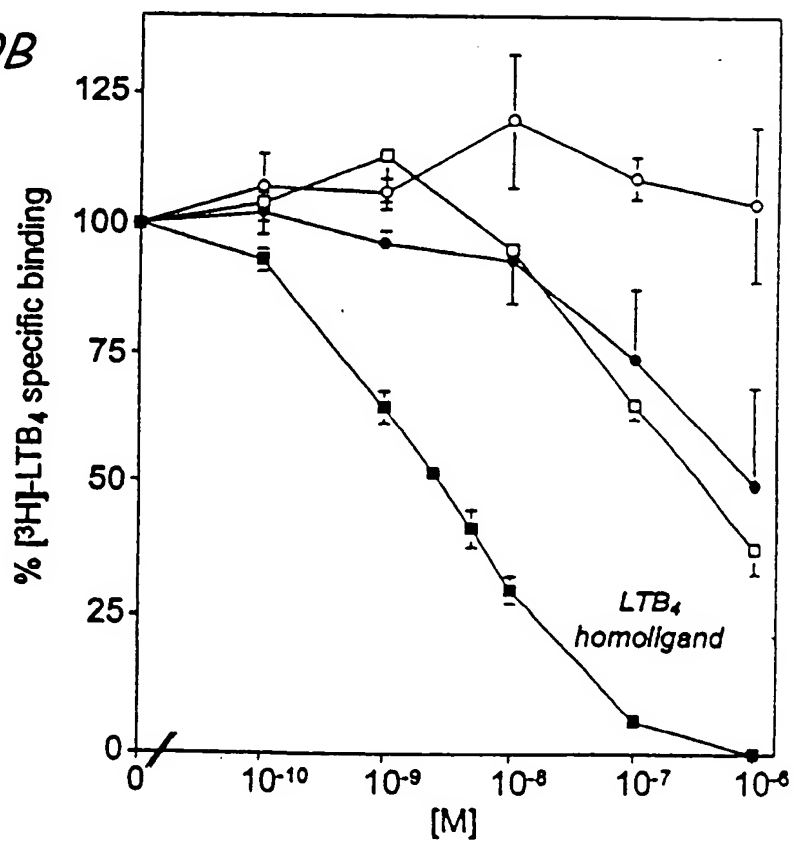
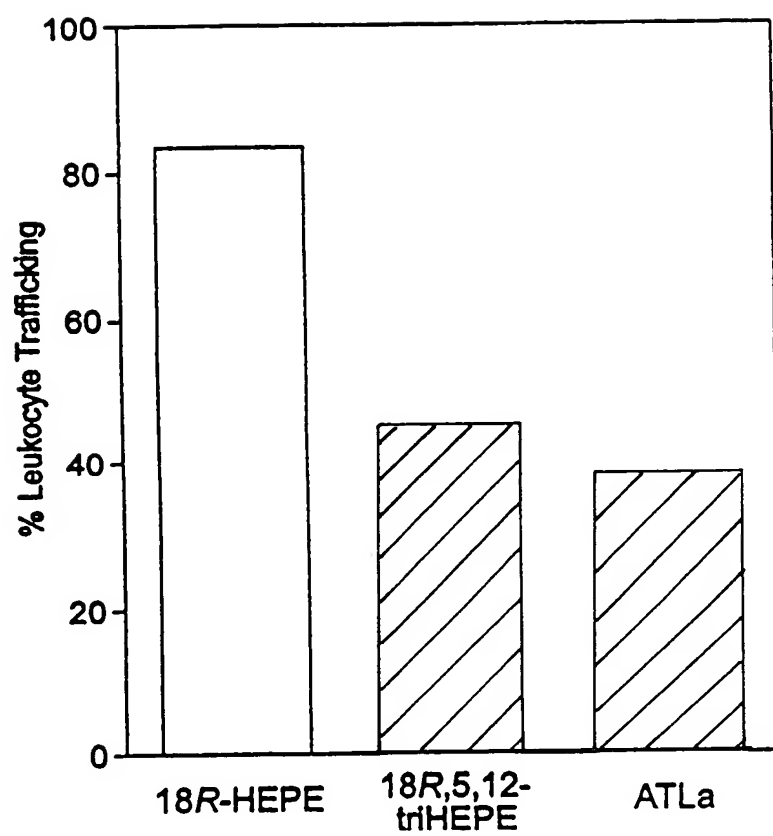


FIG. 9C



19/51

15-HETrE
FIG. 10A

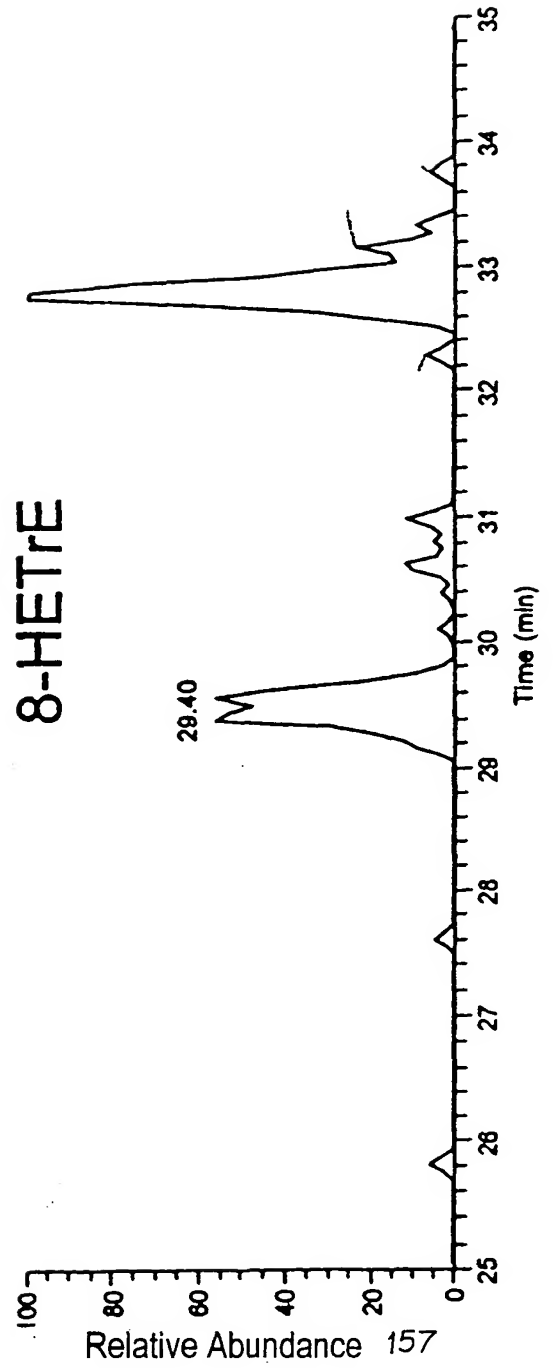
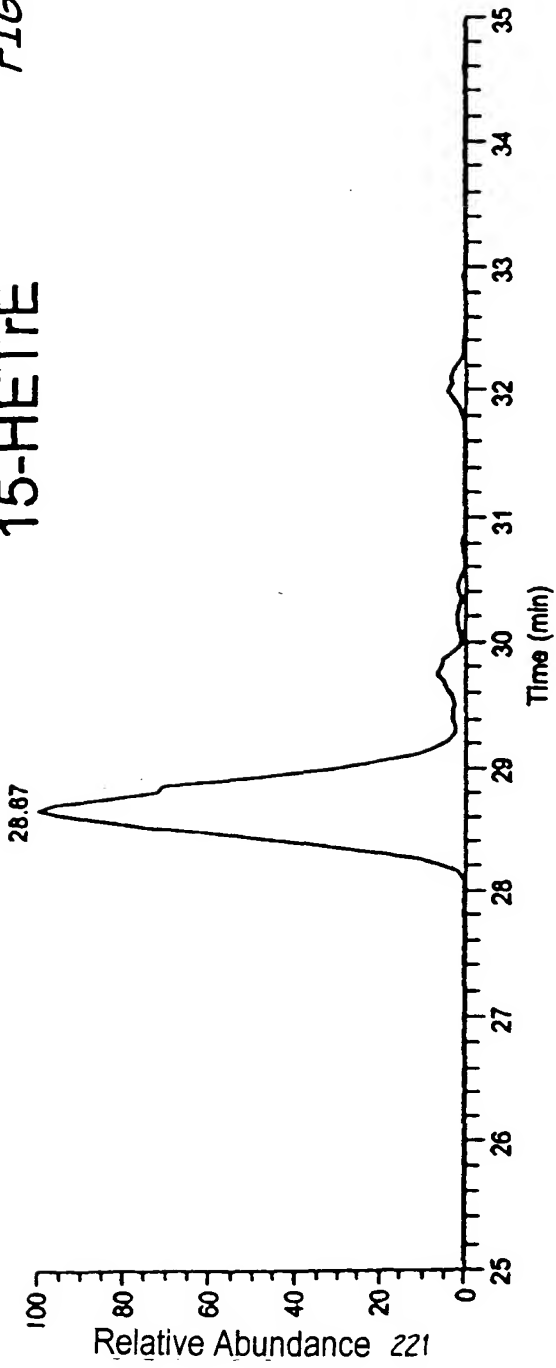


FIG. 10B

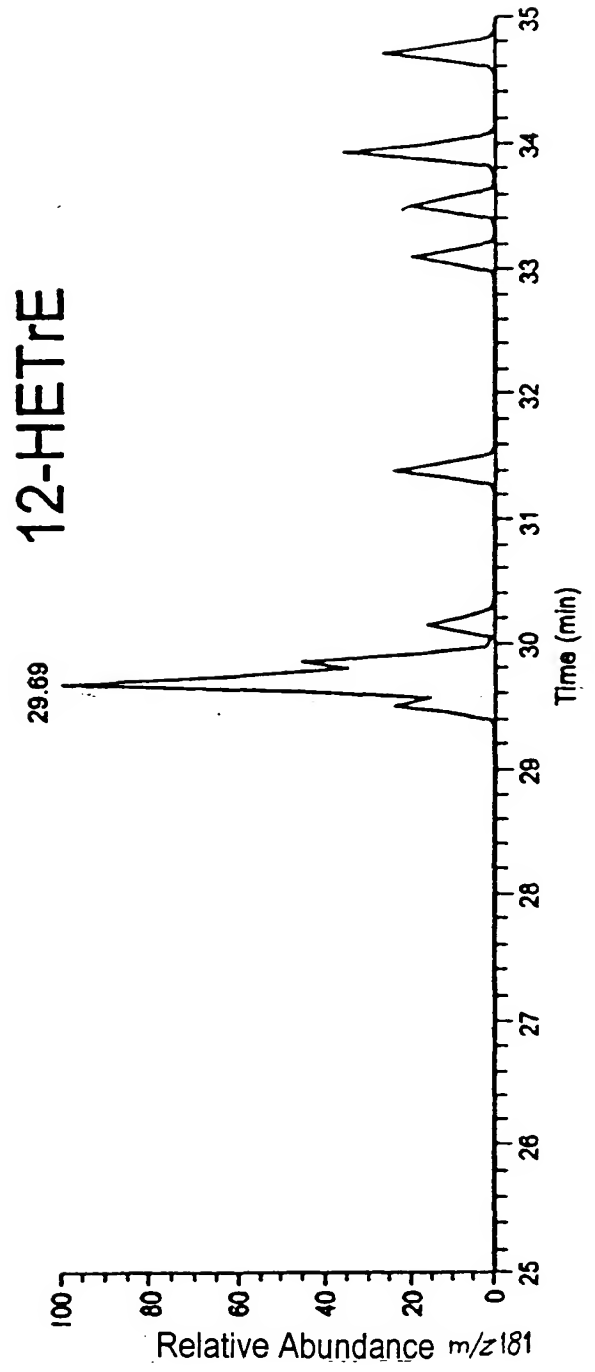
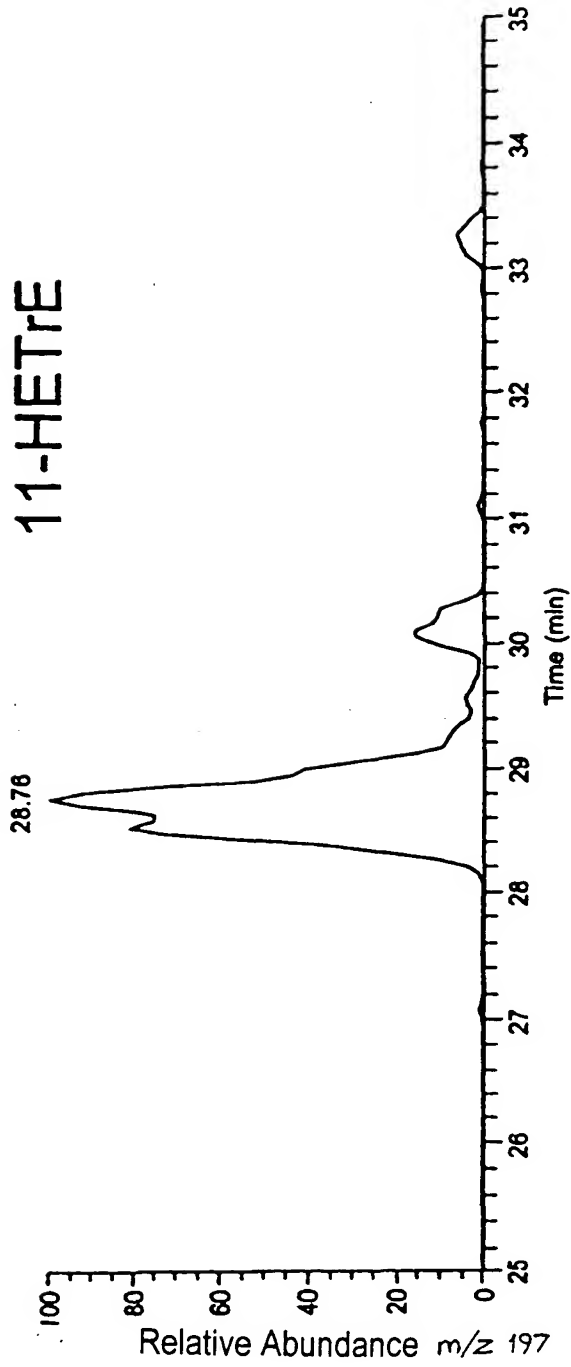
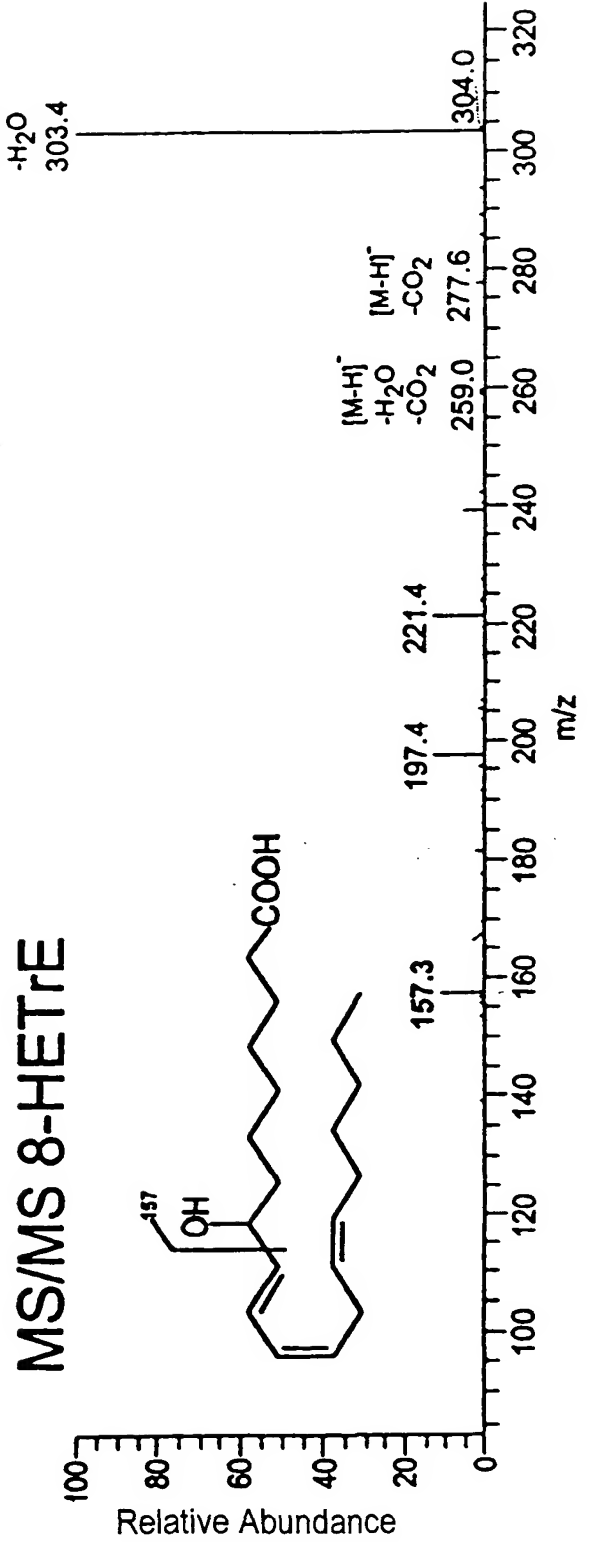
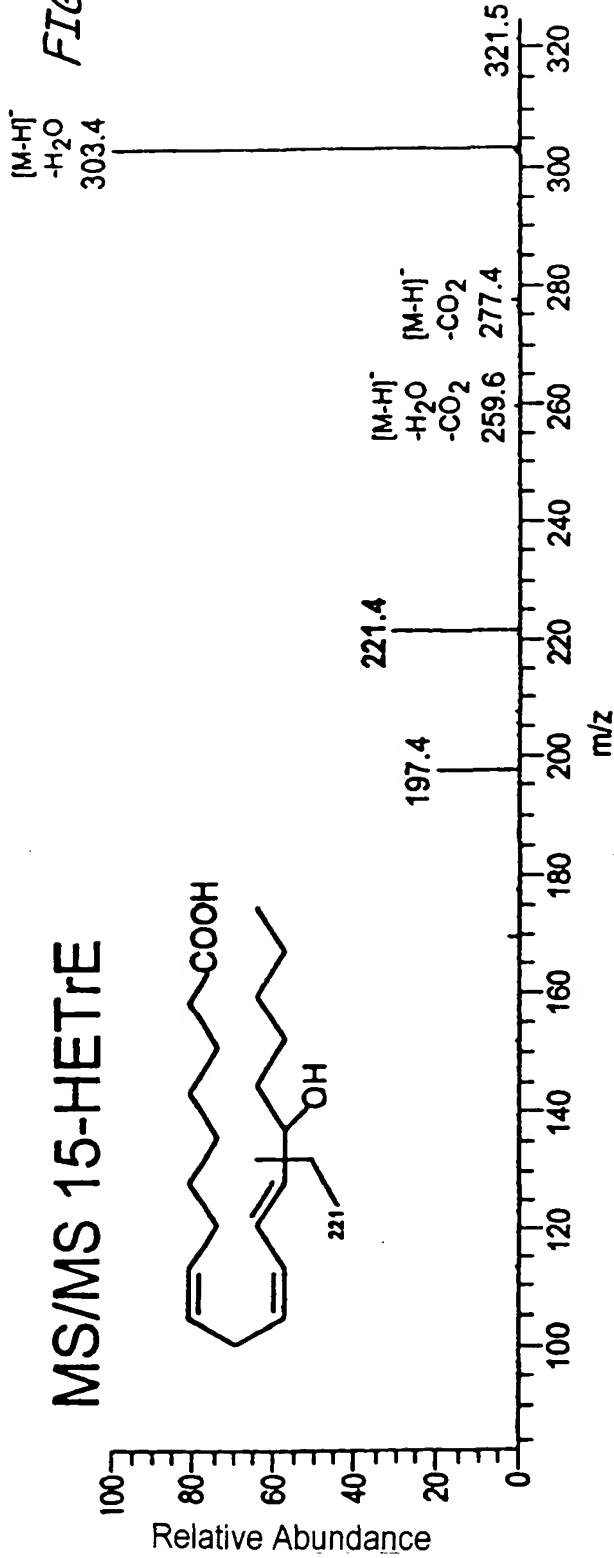
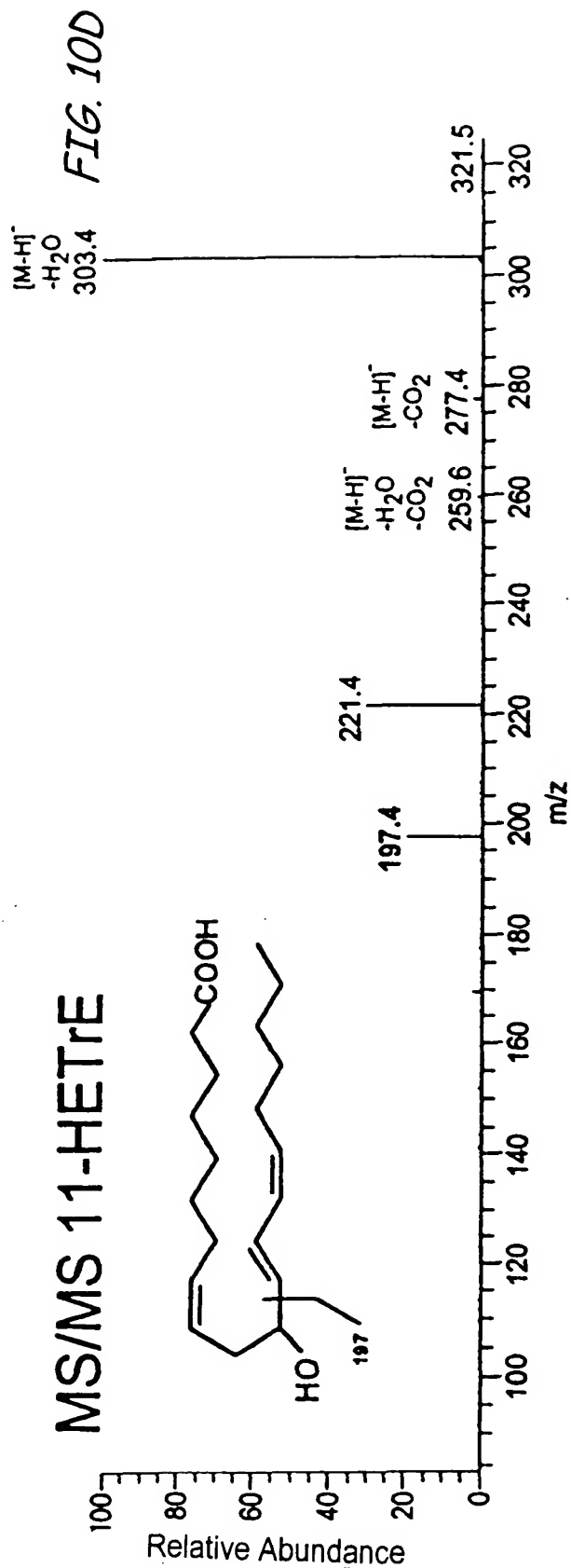


FIG. 10C



MS/MS 11-HETre



MS/MS 12-HETre

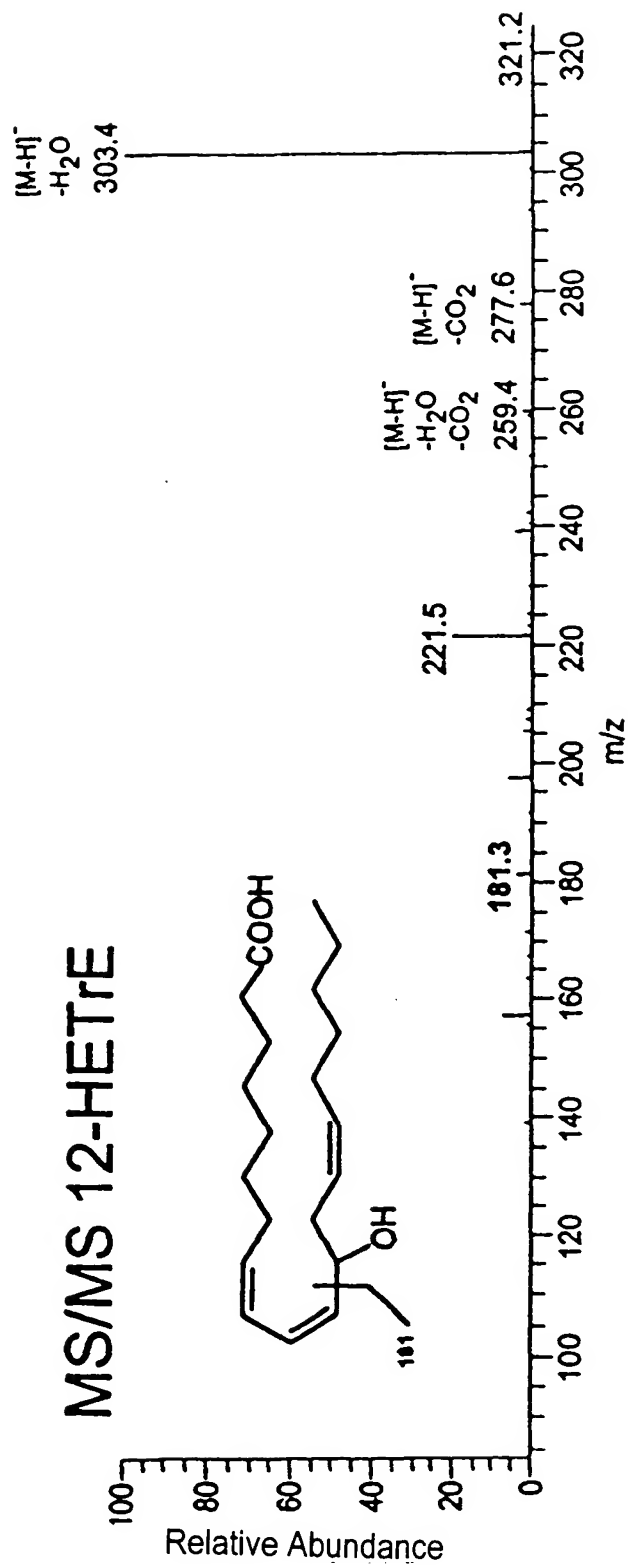
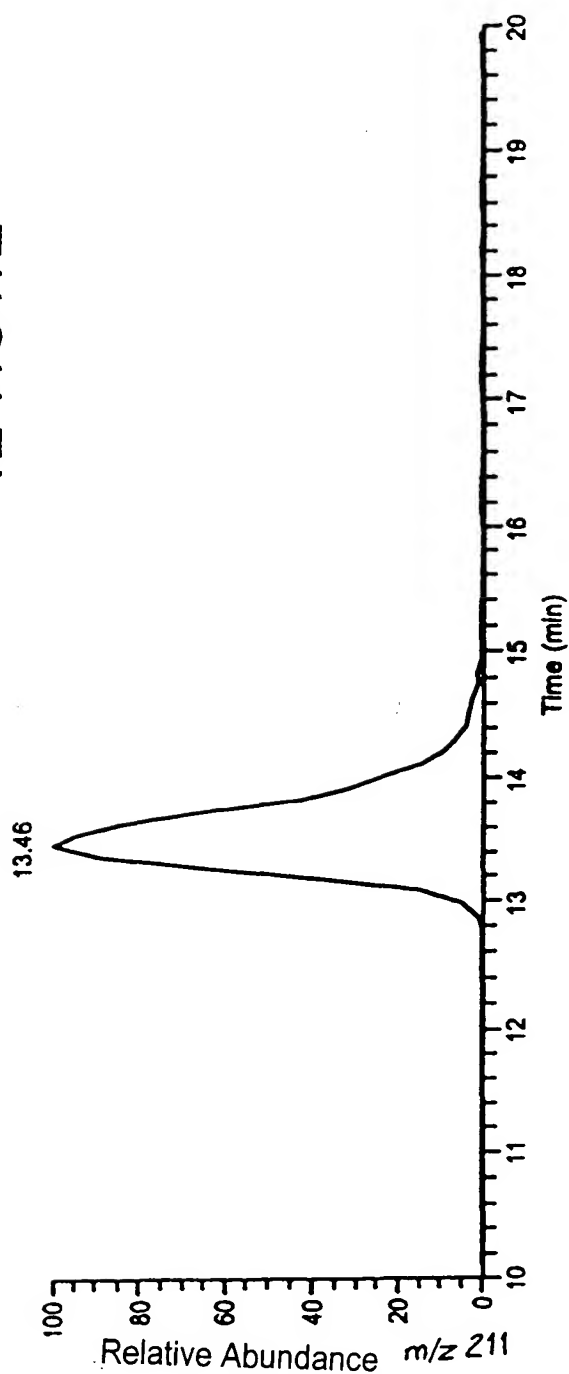


FIG. 10E

12-HOTrE



16-HOTrE

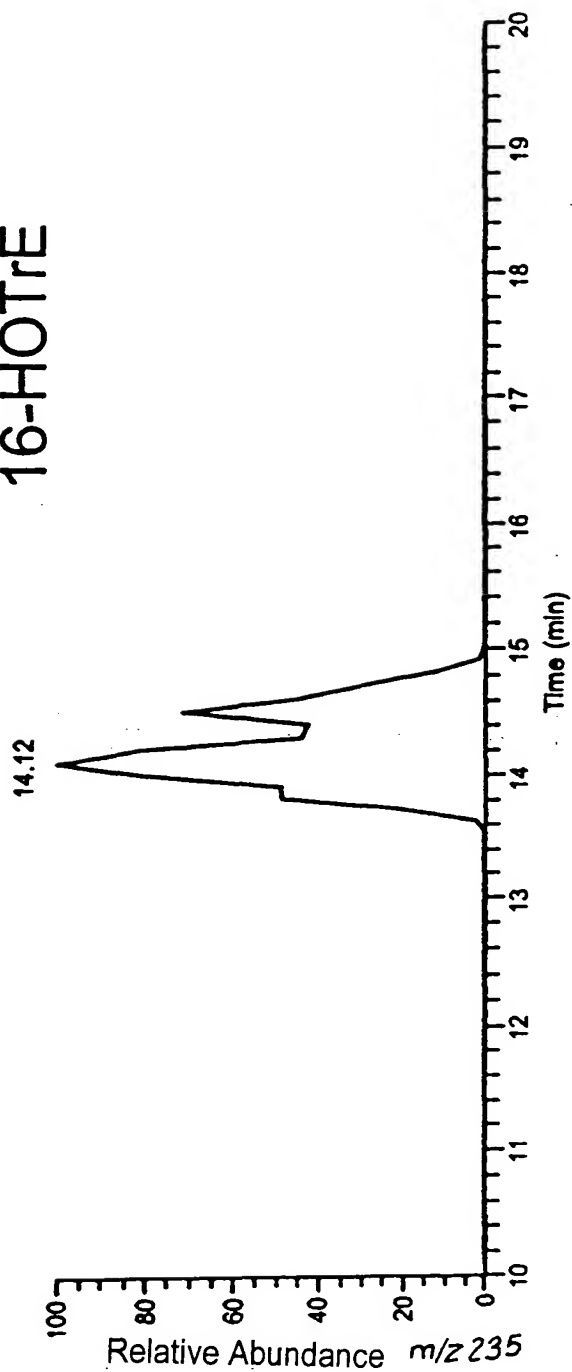
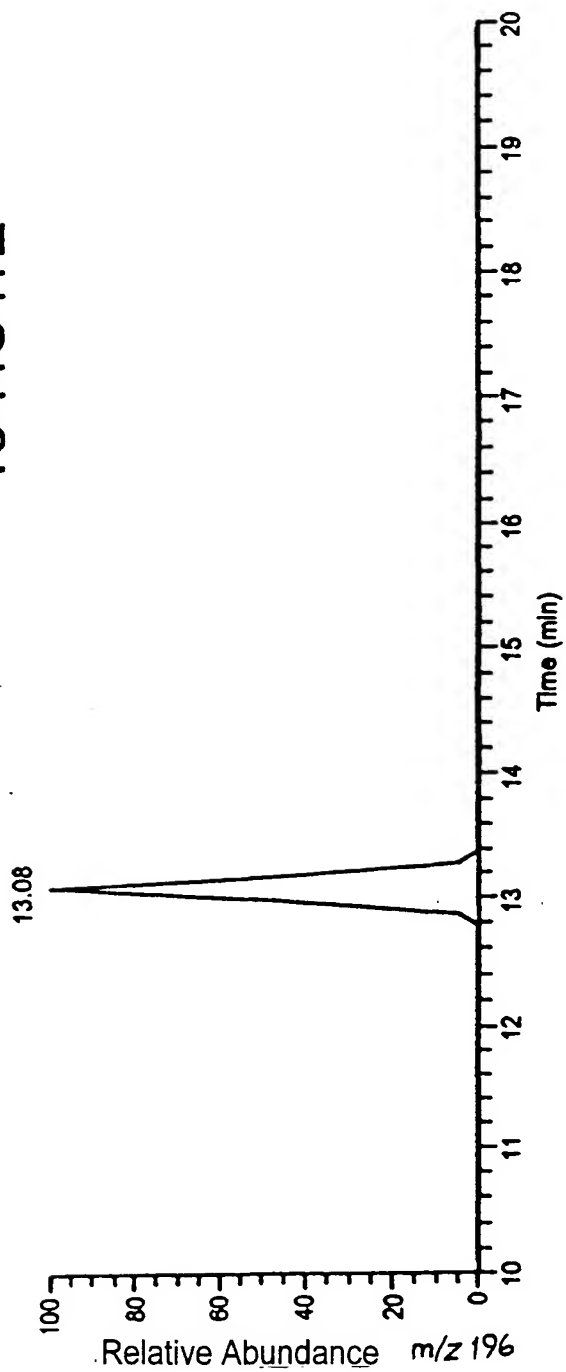
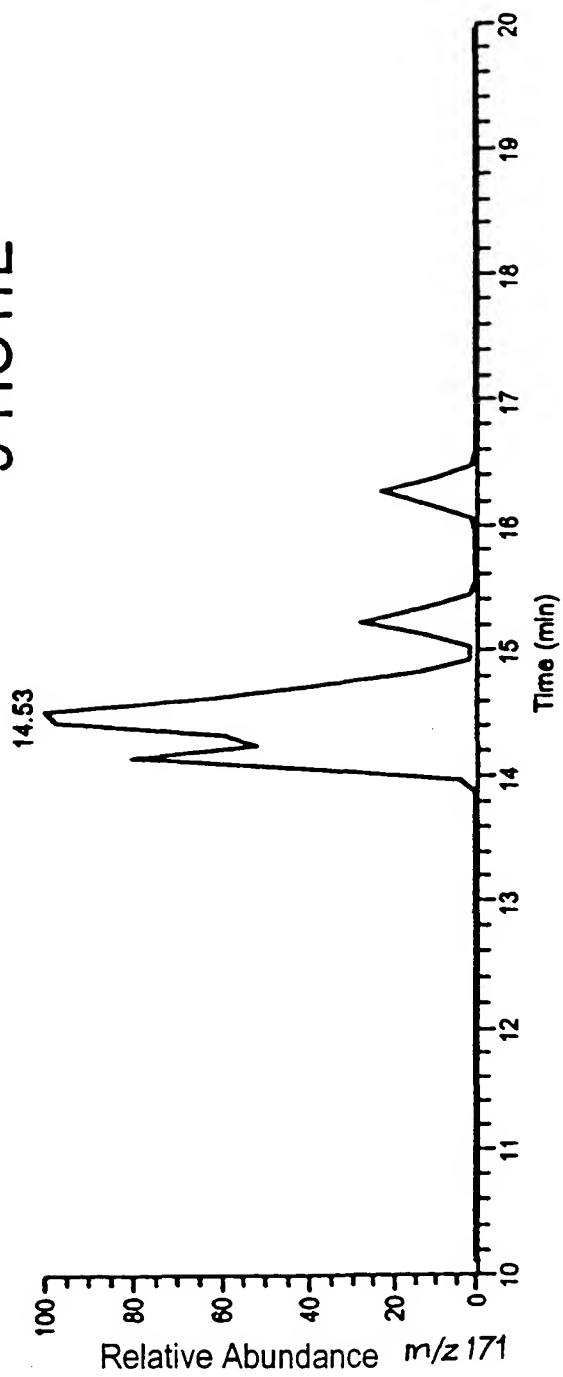


FIG. 10F

13-HOTrE

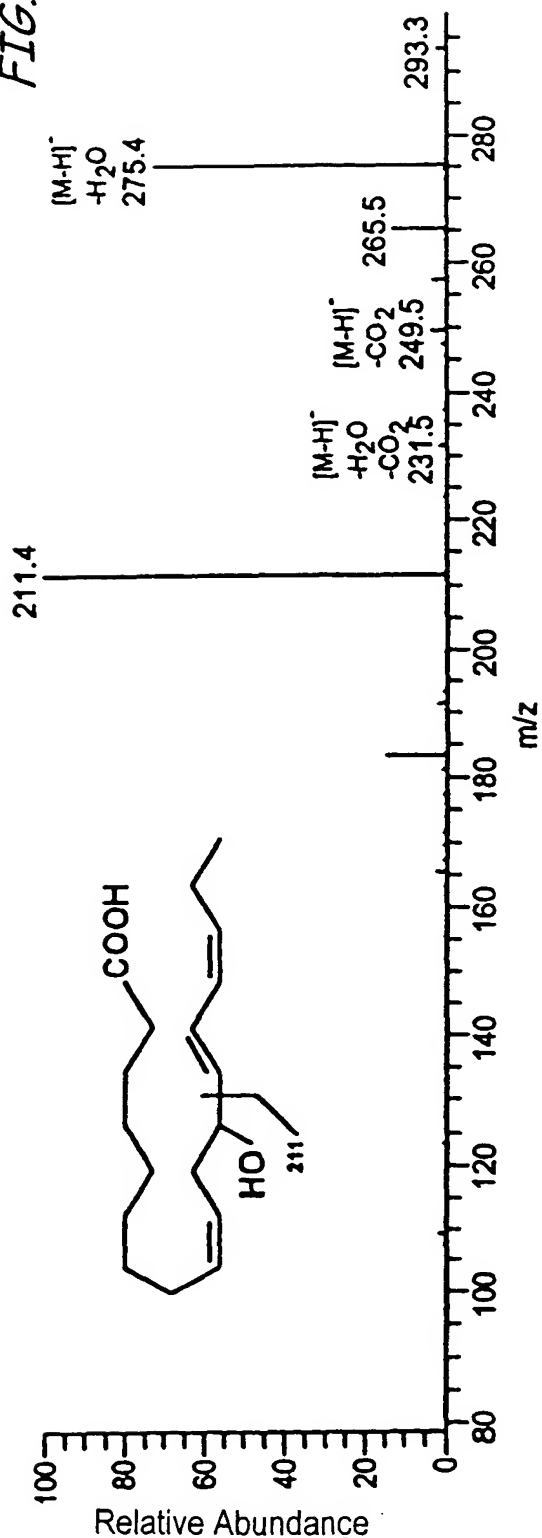


9-HOTrE

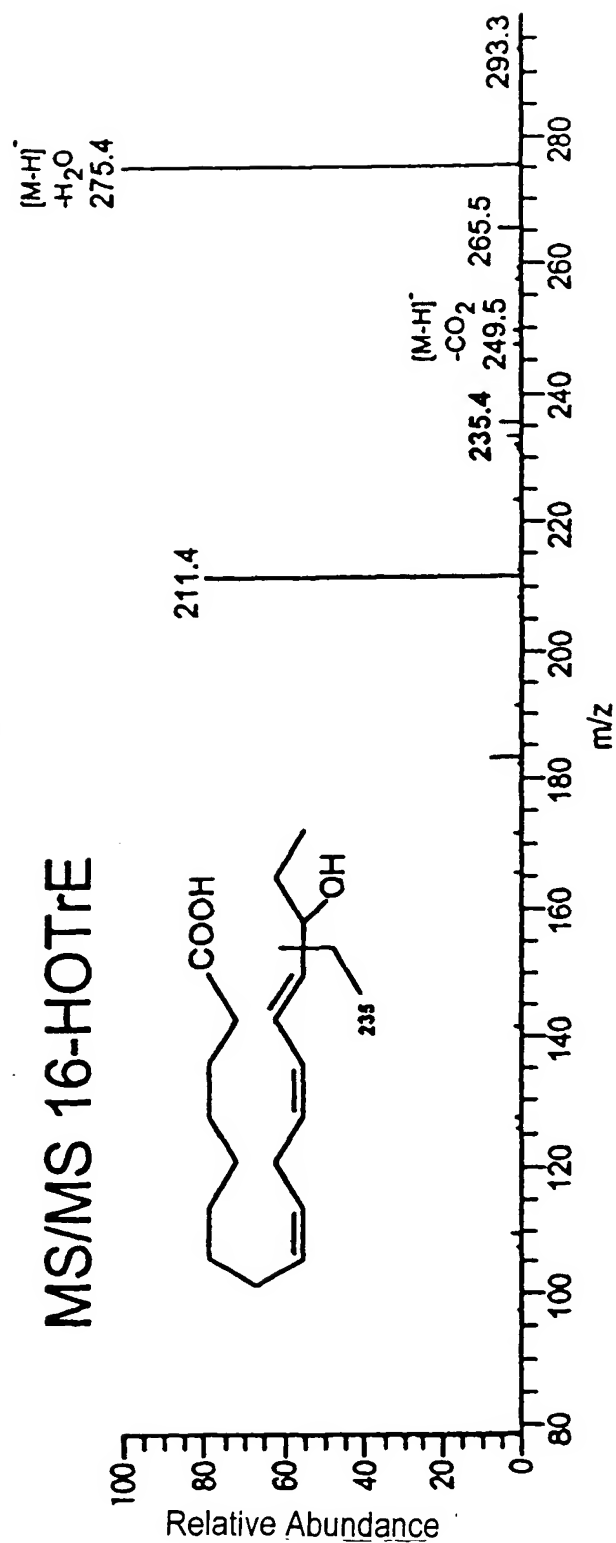


MS/MS 12-HOTrE

FIG. 10G

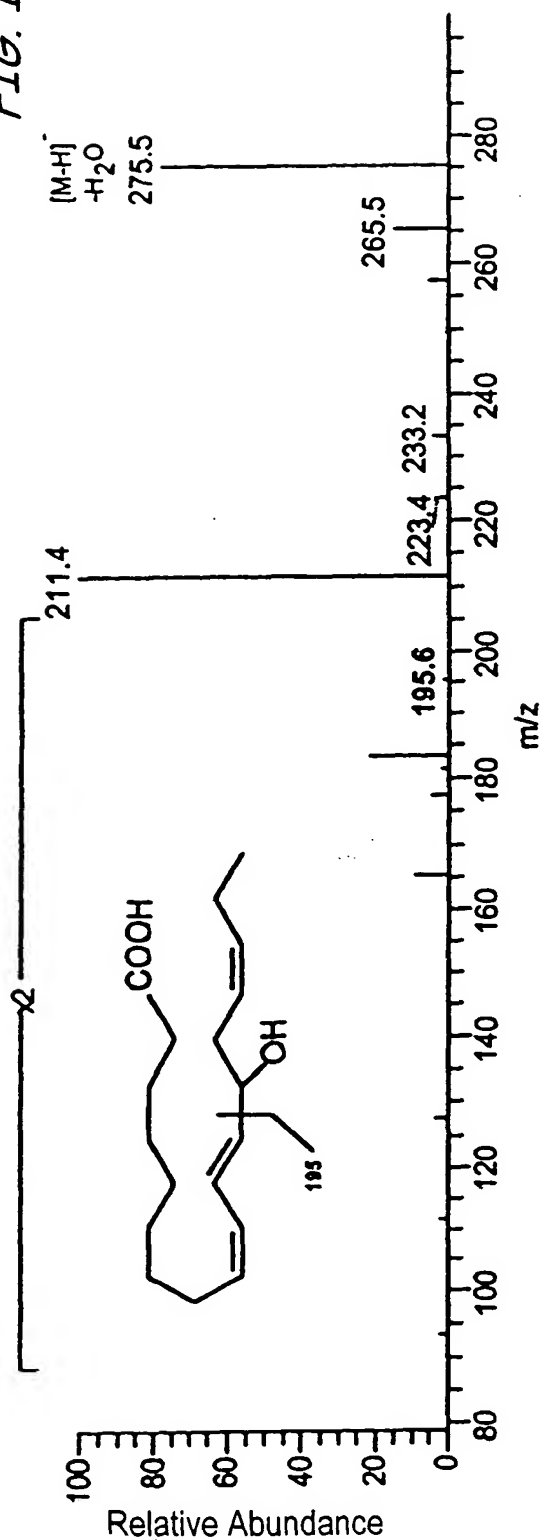


MS/MS 16-HOTrE



MS/MS 13-HOTrE

FIG. 10H



MS/MS 9-HOTrE

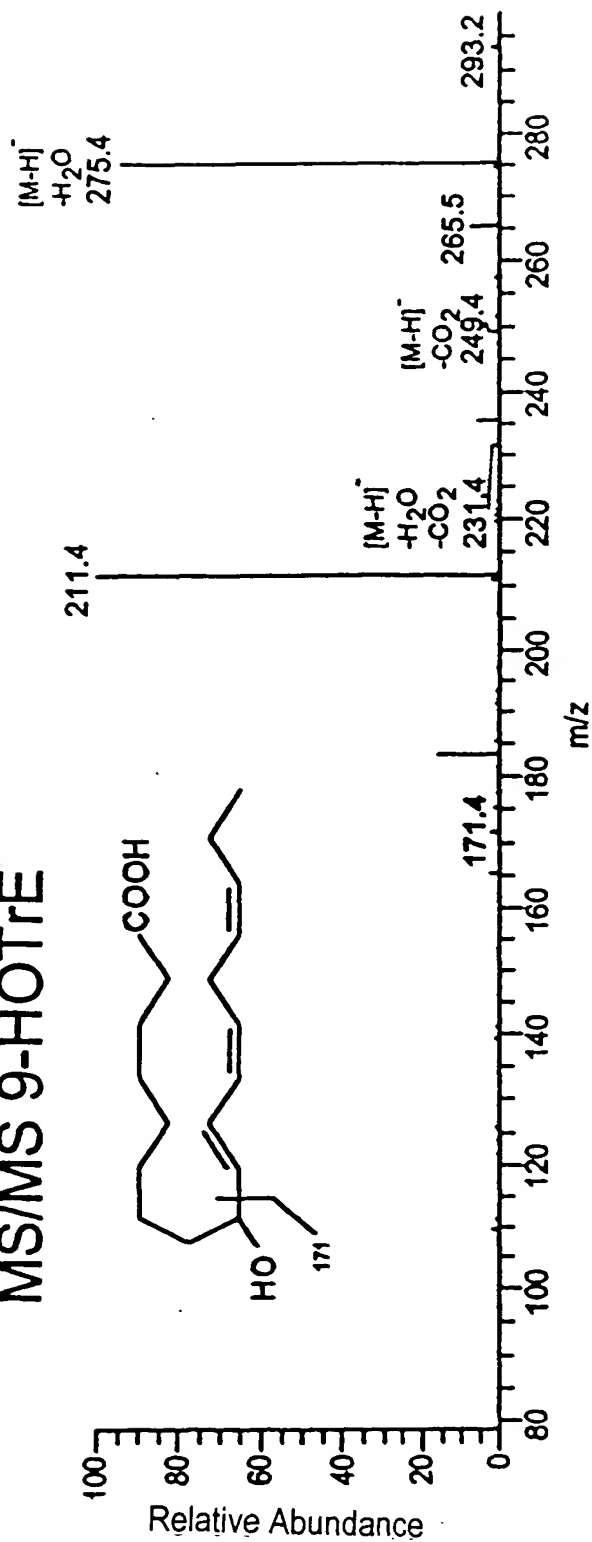


FIG. 10I

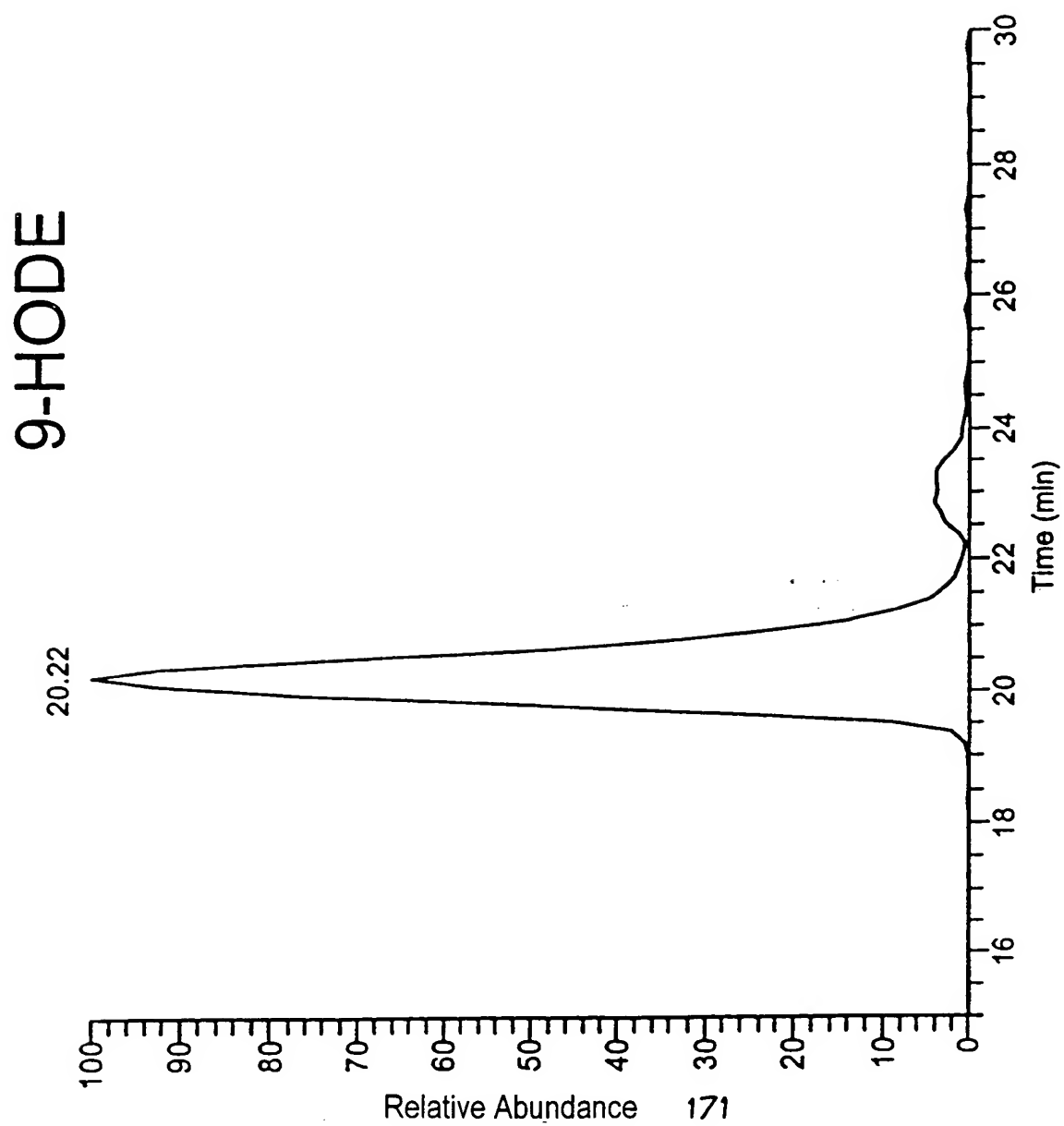


FIG. 10J

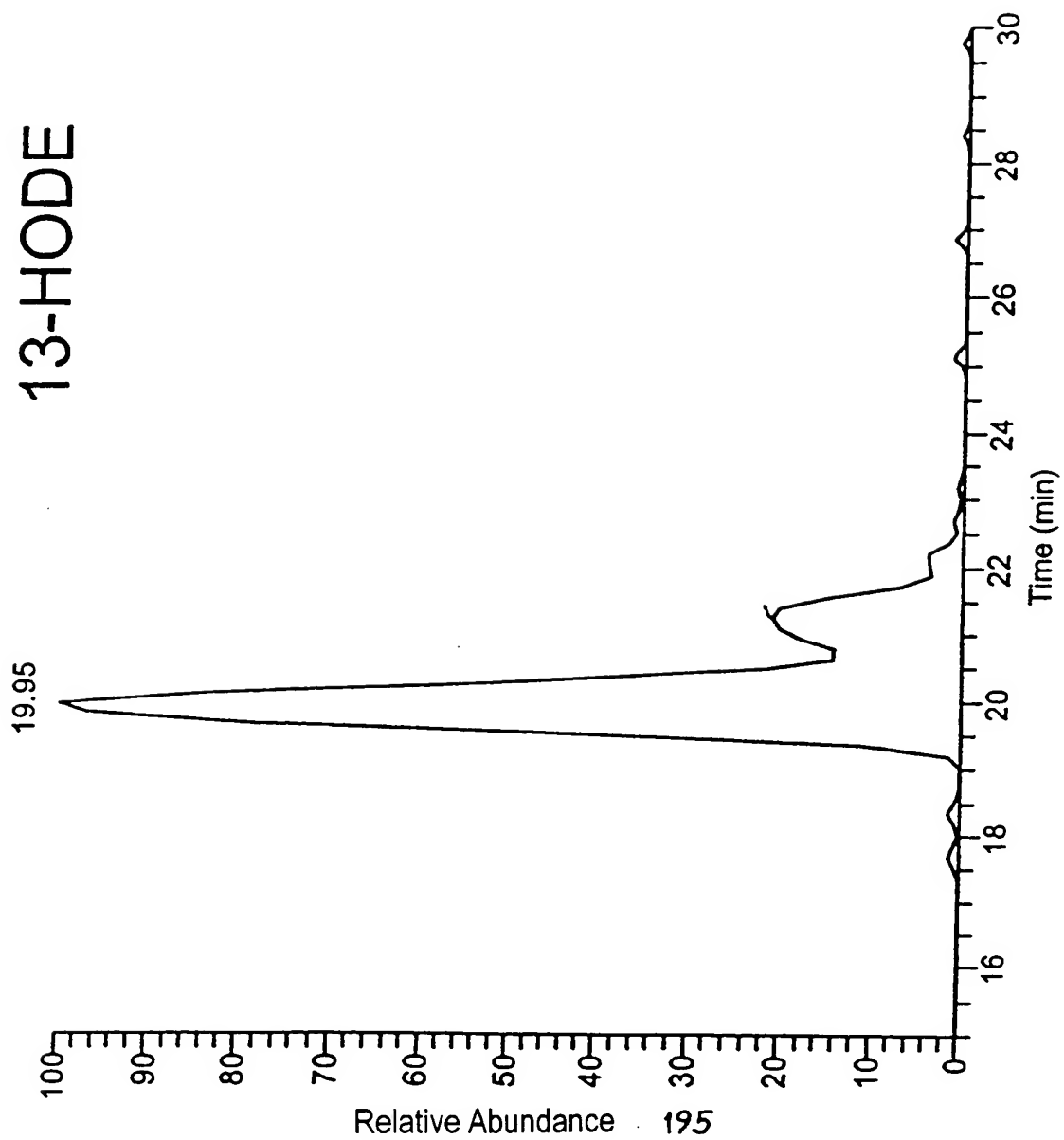


FIG. 10K

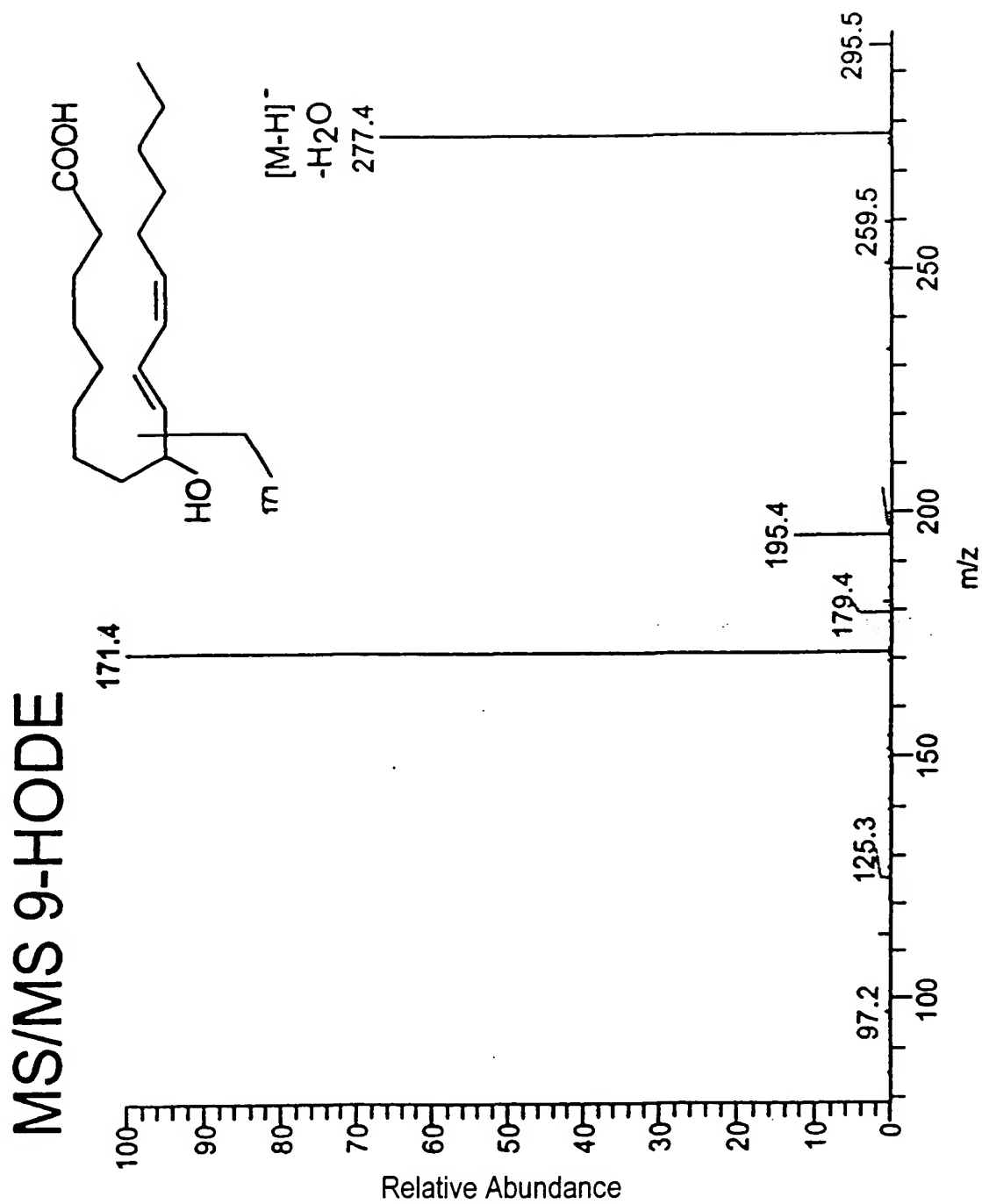
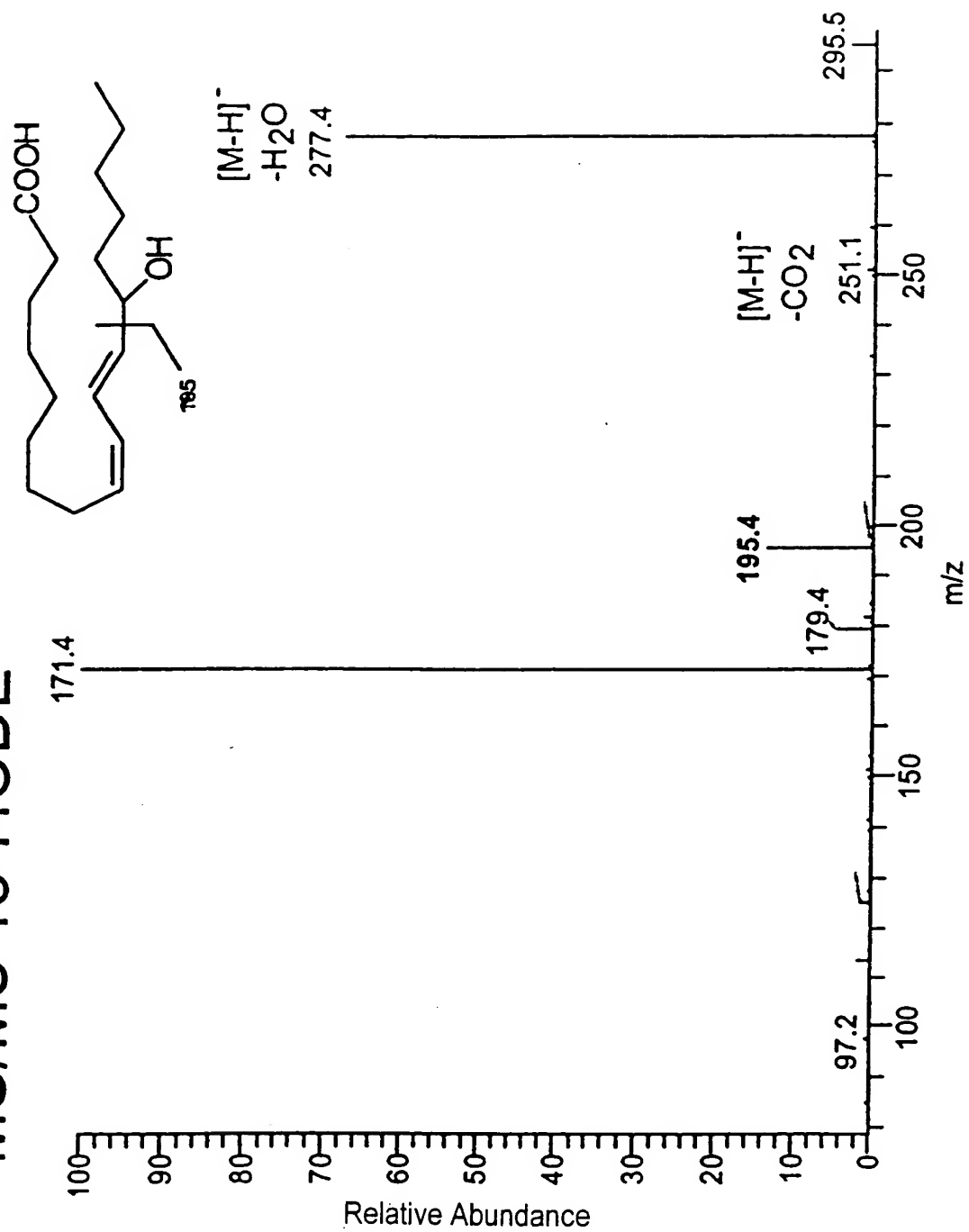


FIG. 10L

MS/MS 13-HODE



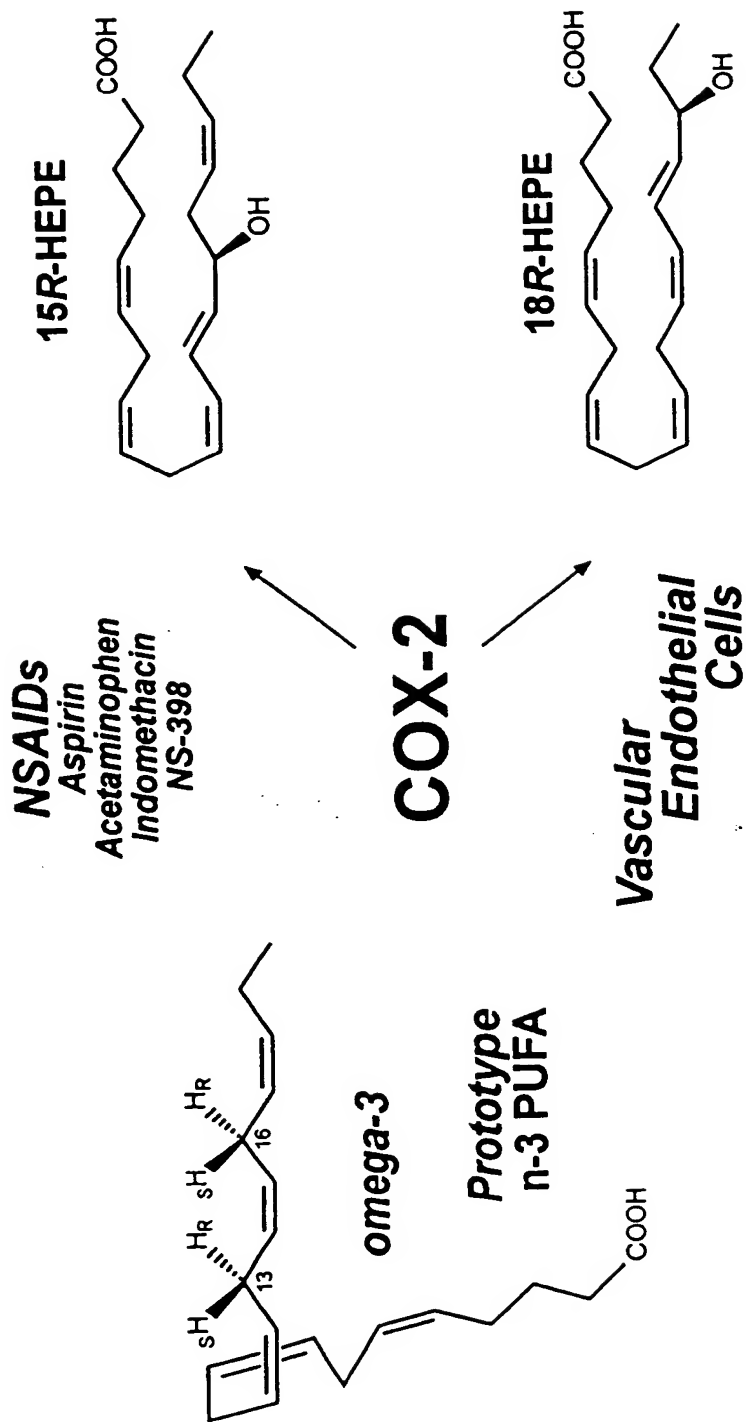
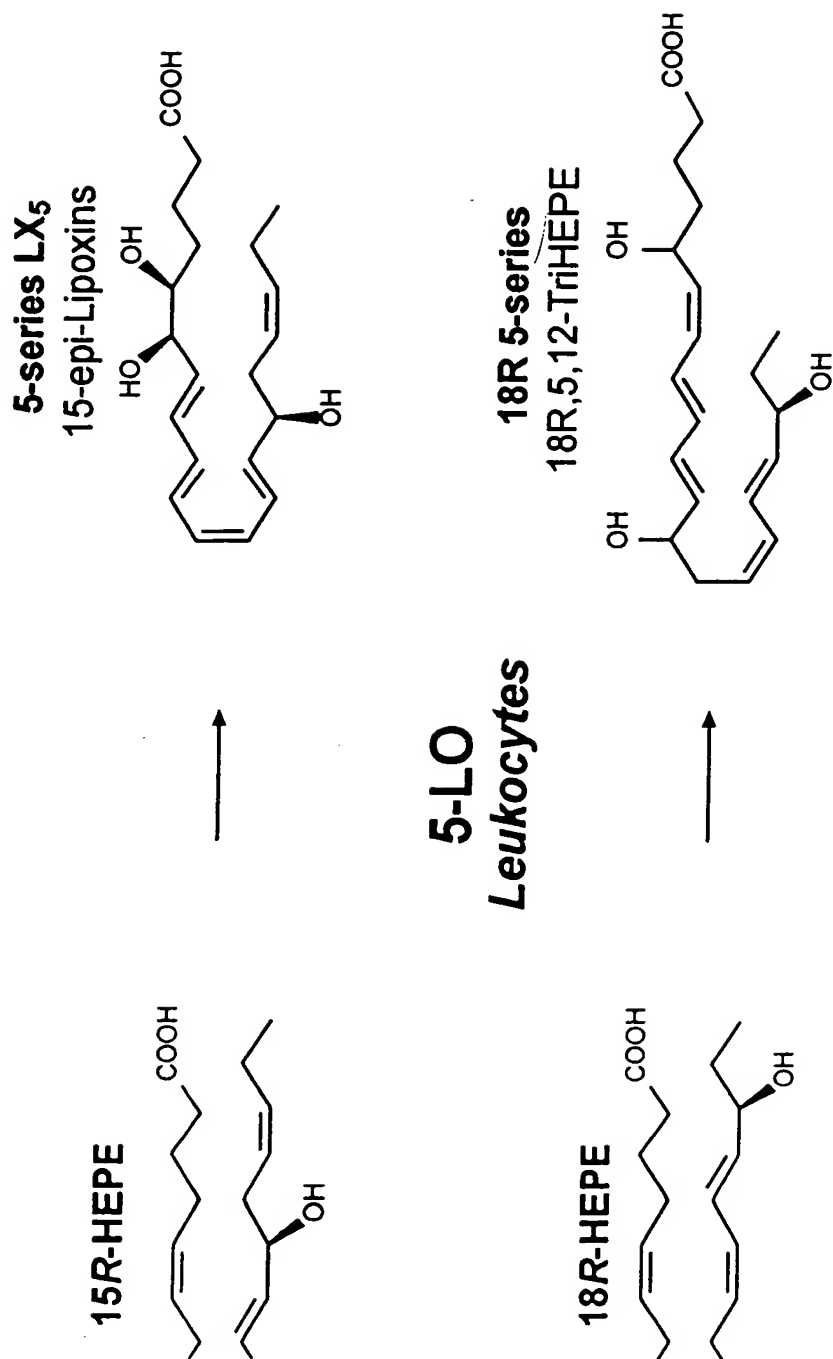


FIG. 11A



5-LO
Leukocytes

FIG. 11B

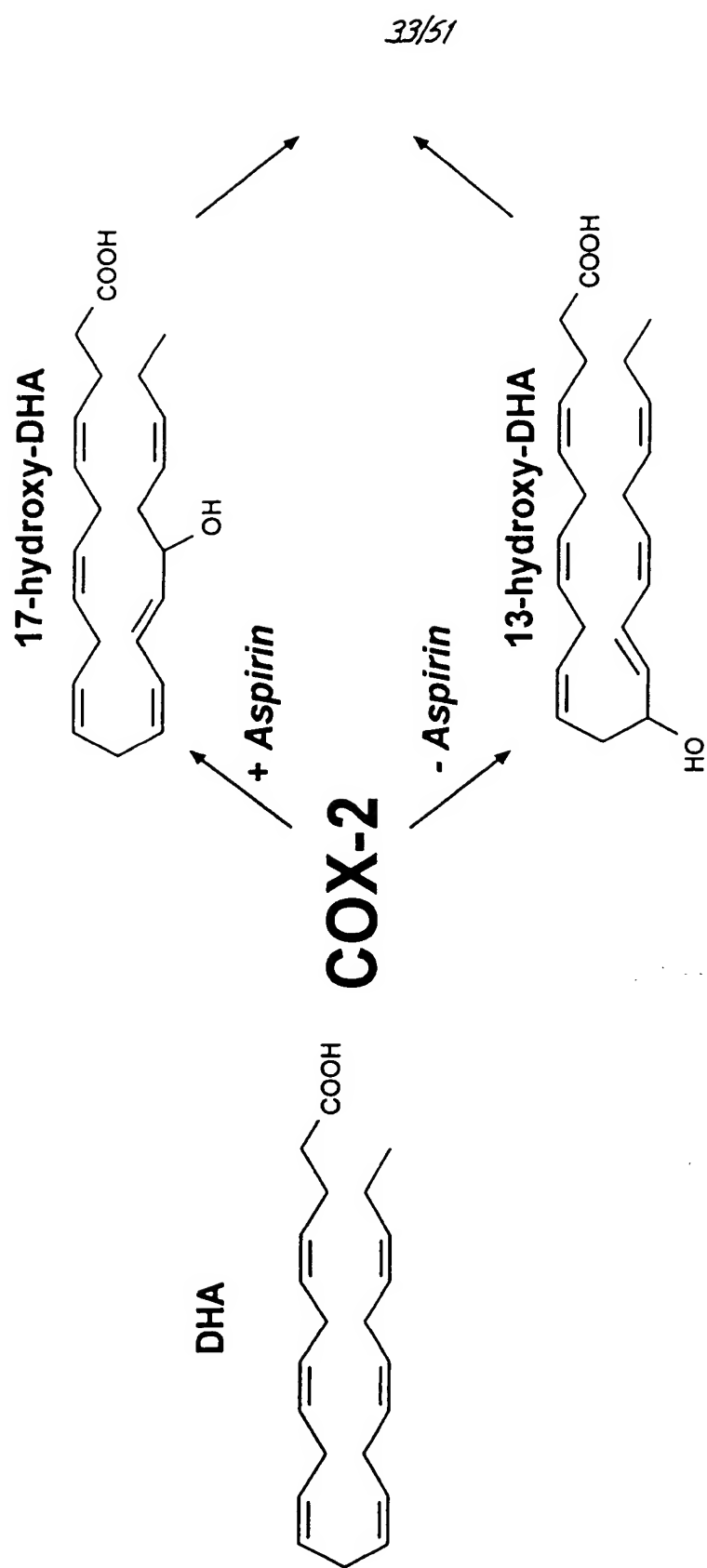
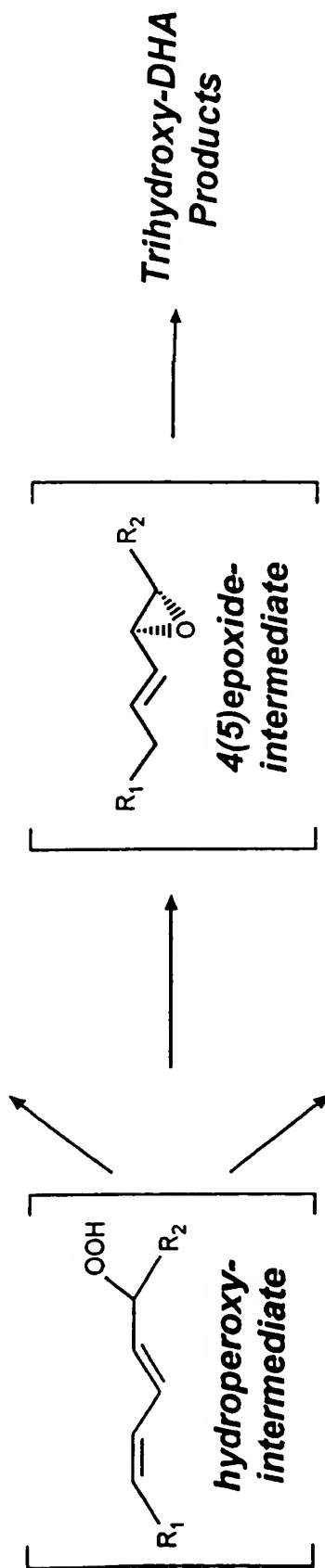


FIG. 11C

4,17-dihydroxy-DHA



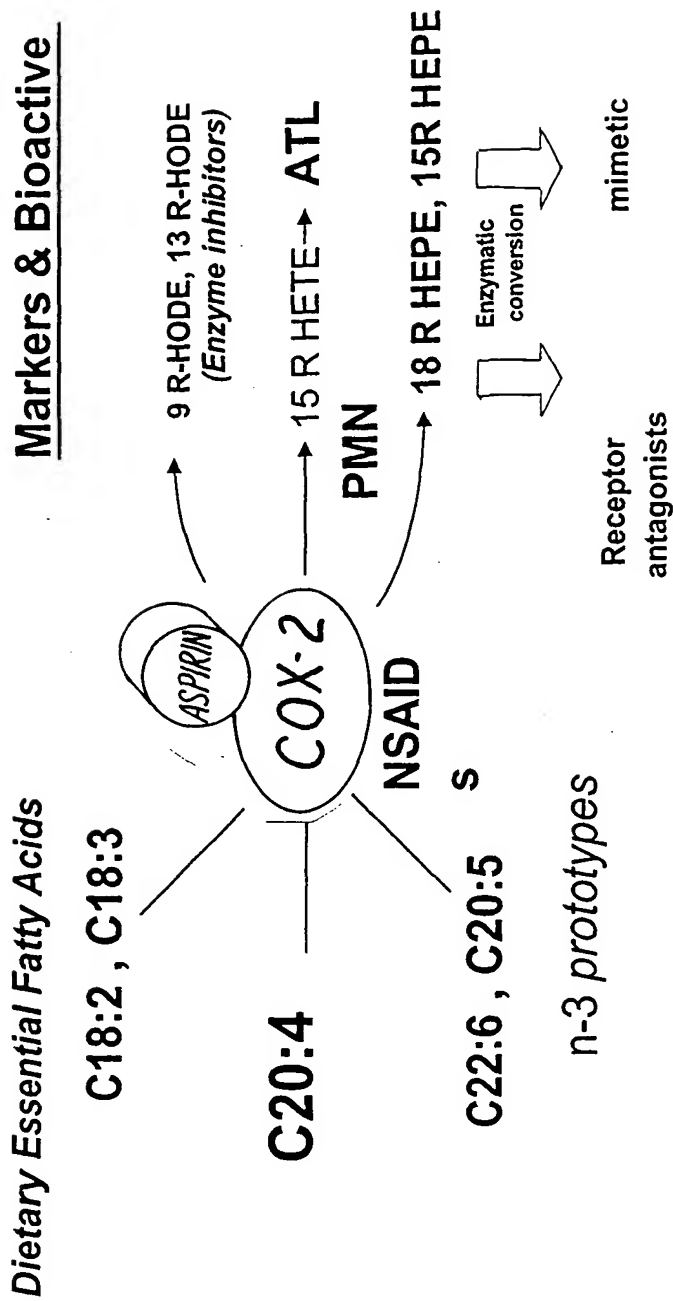
4,13-dihydroxy-DHA

5-LO
Leukocytes

FIG. 11D

FIG. 12

Aspirin Triggered / NSAIDs : New Pathways



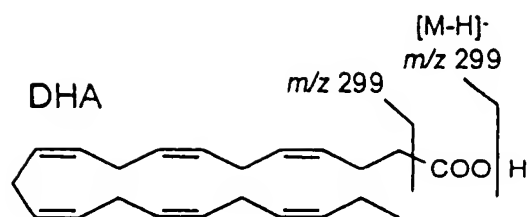
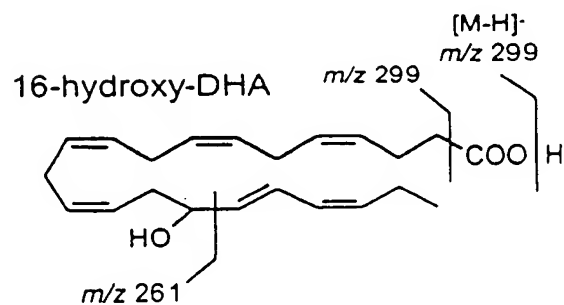
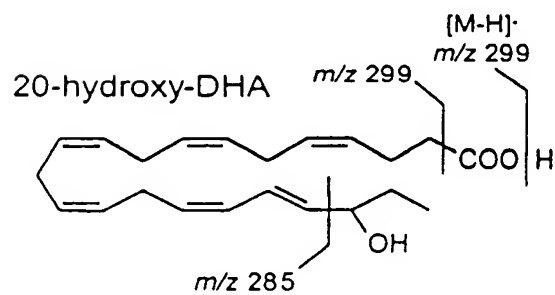
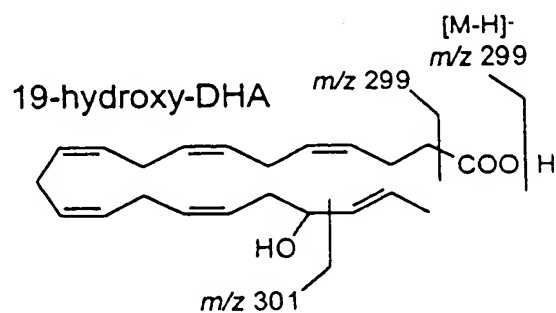
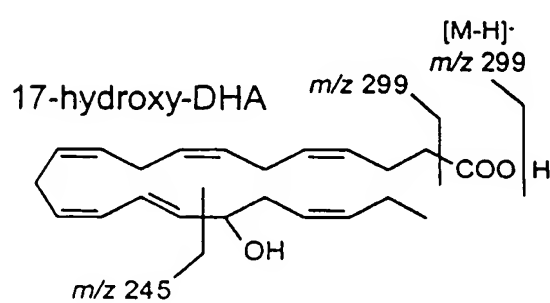
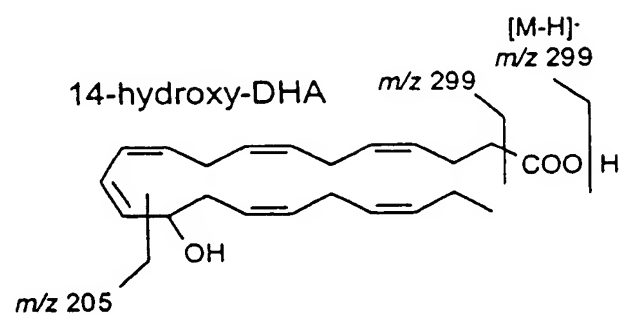
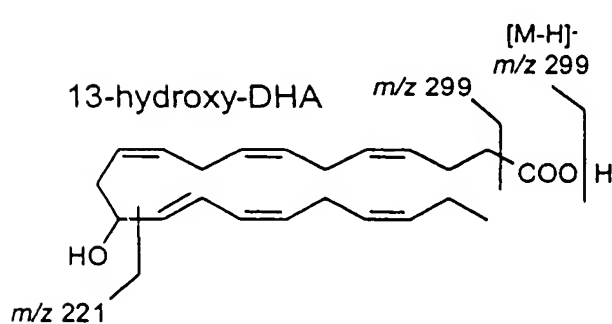


FIG. 13

Major Products



37/51

FIG. 14A

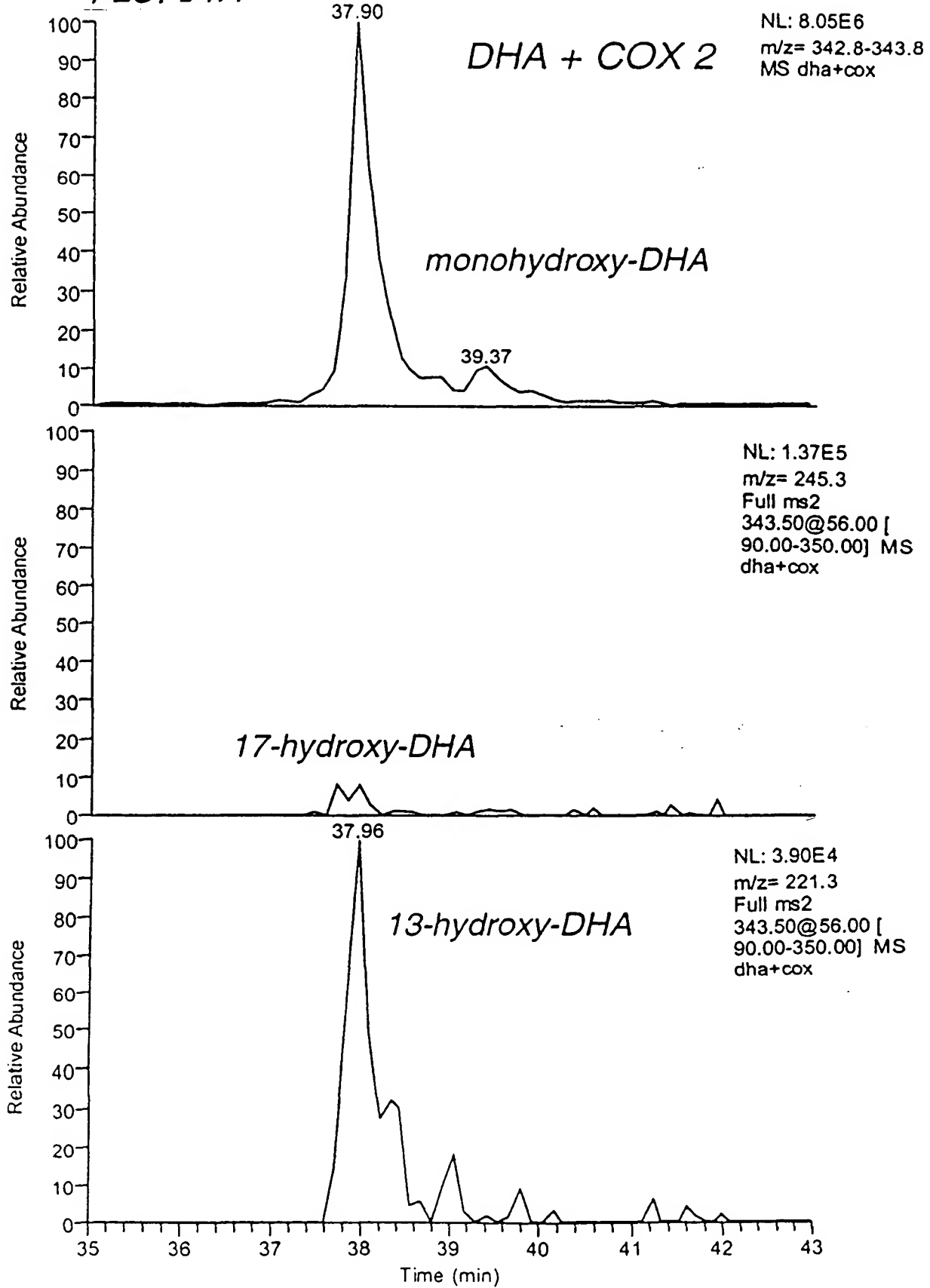
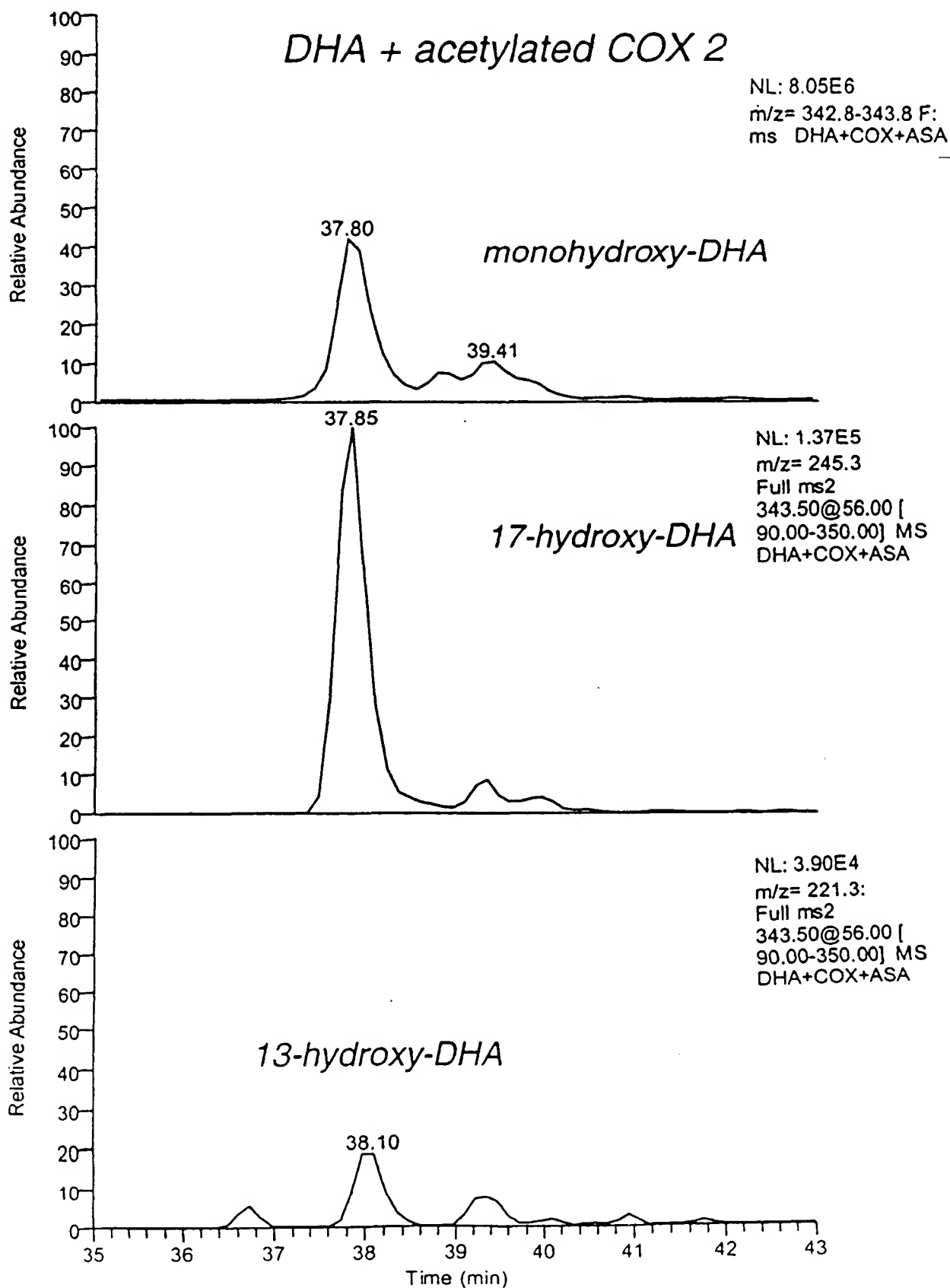


FIG. 14B

38/51



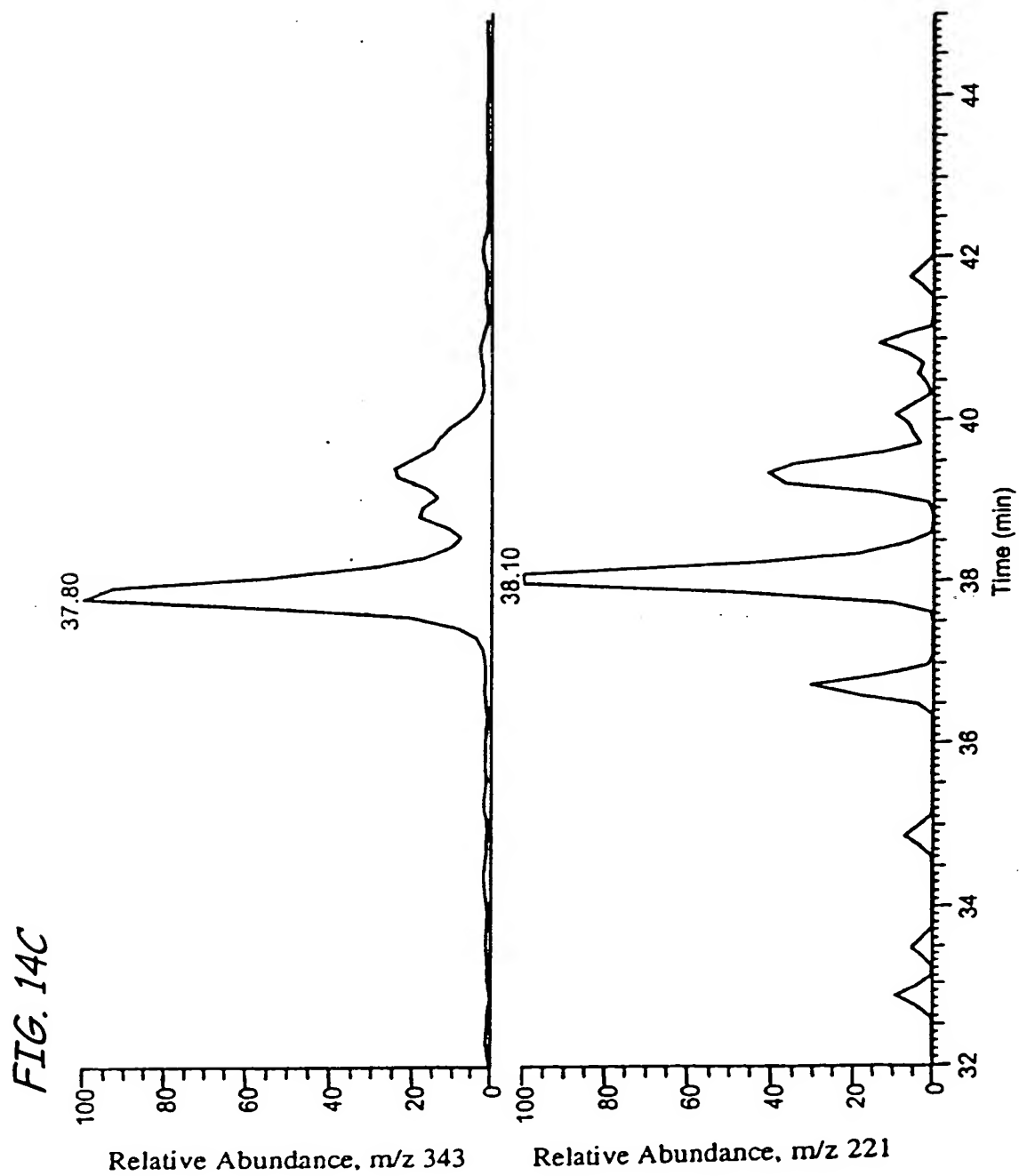
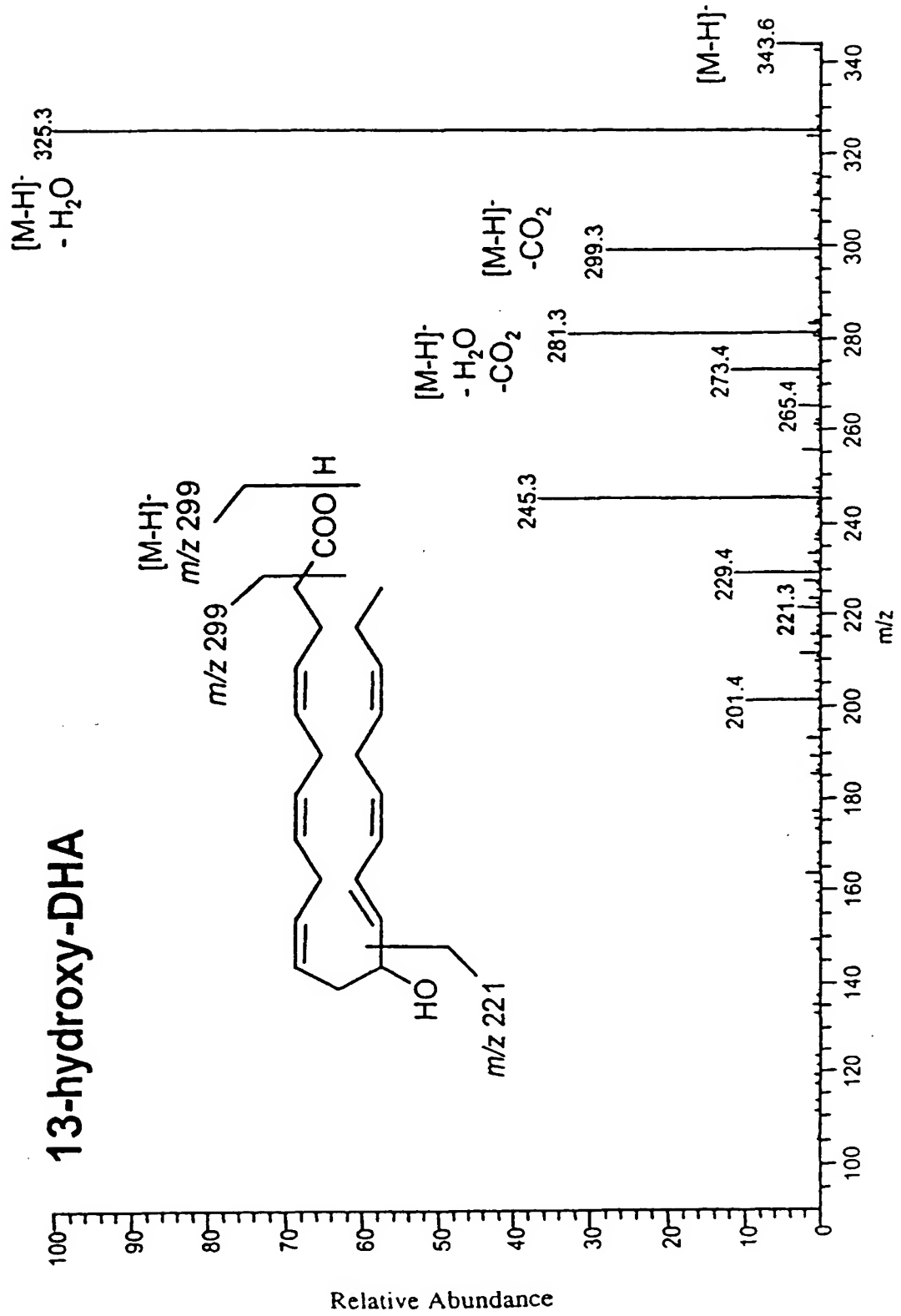
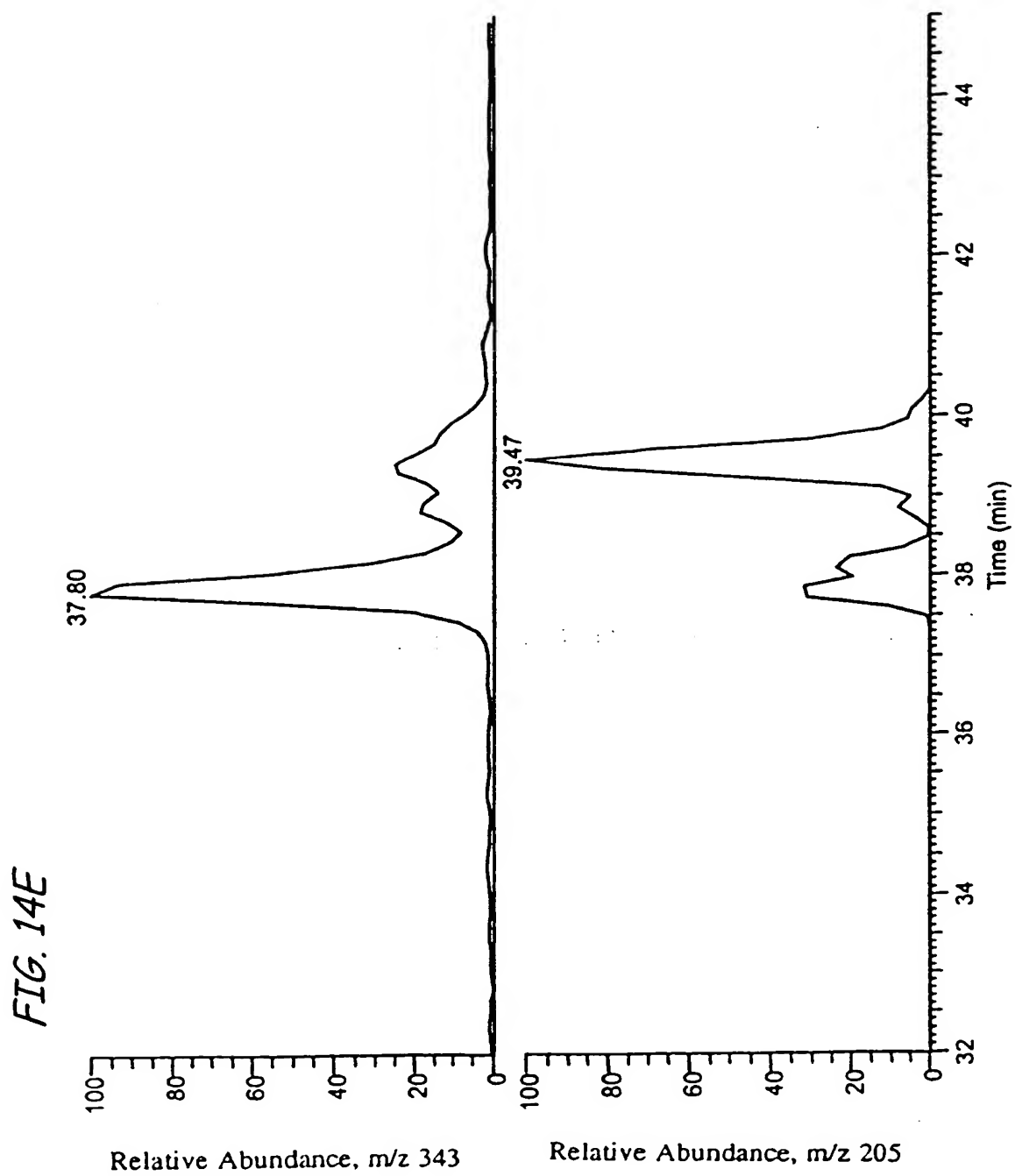


FIG. 14D





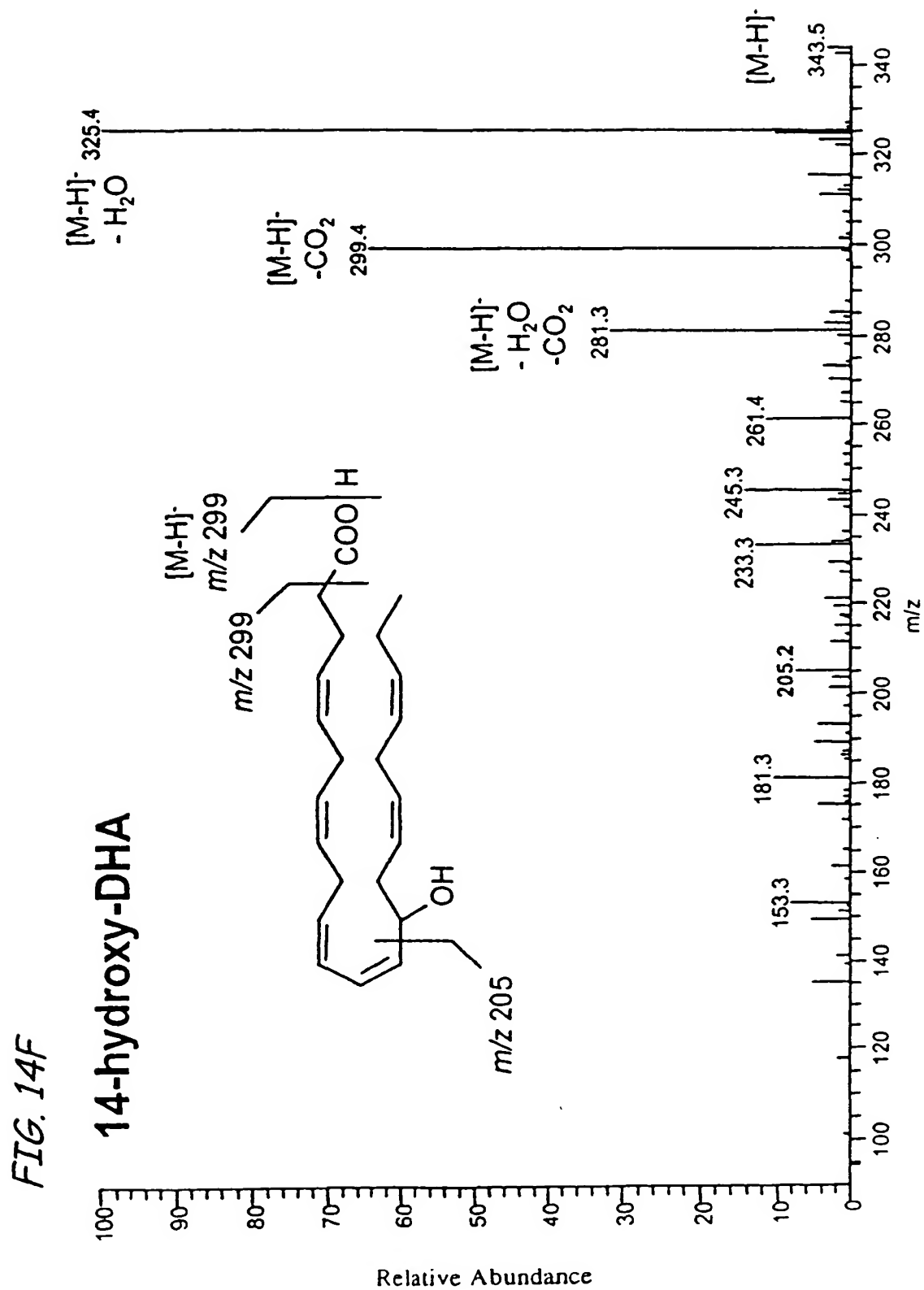


FIG. 14G

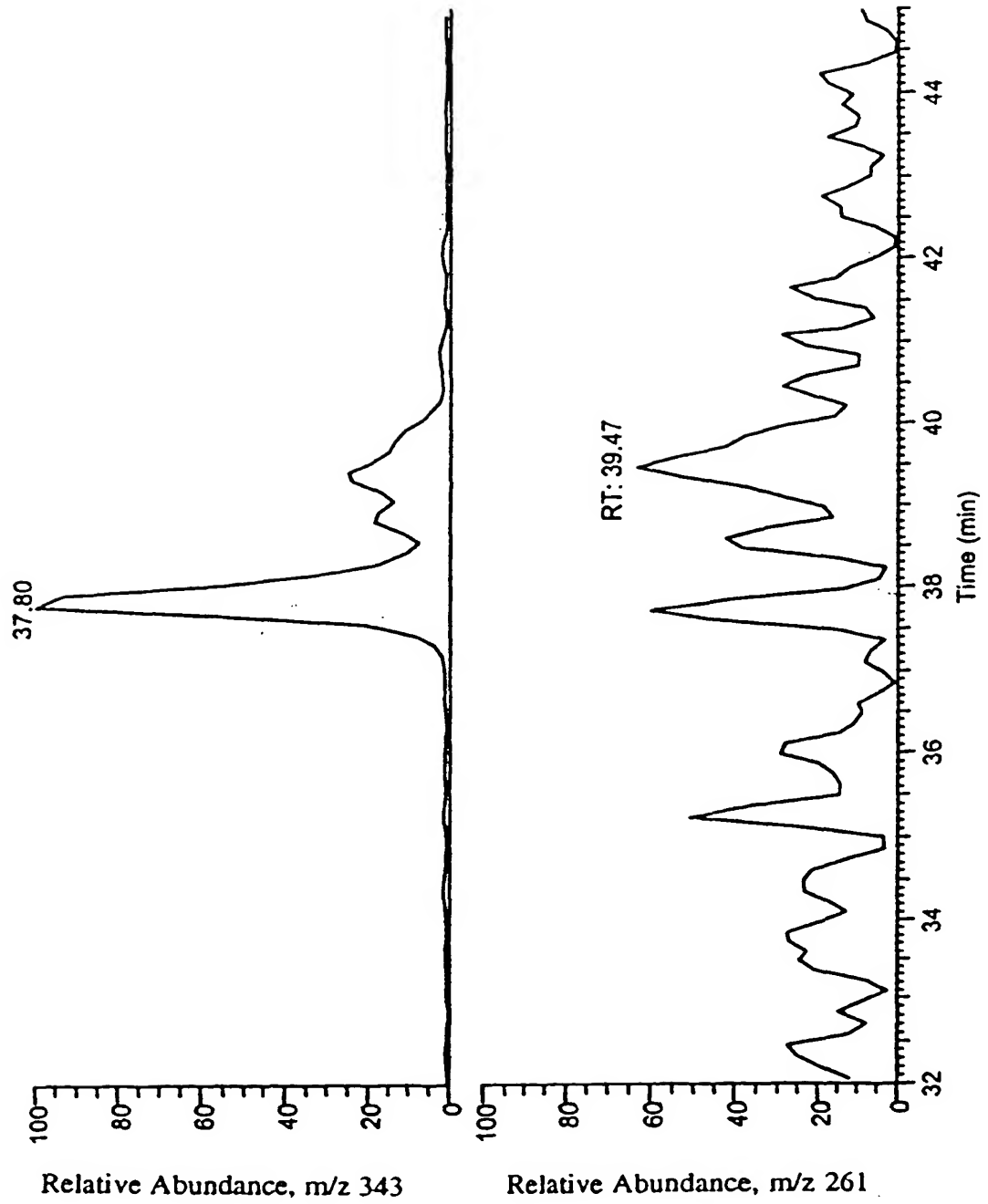


FIG. 14H

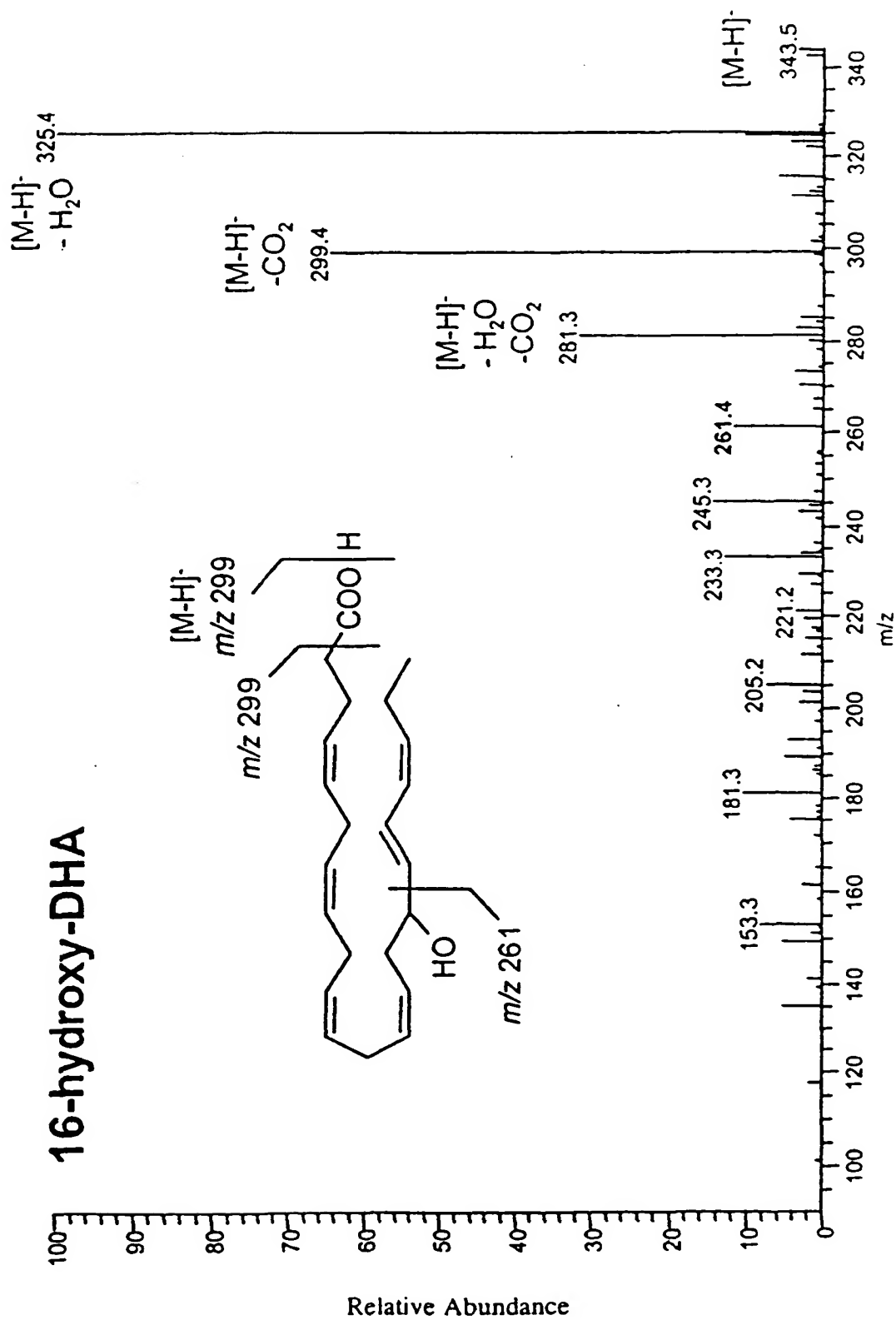


FIG. 14I

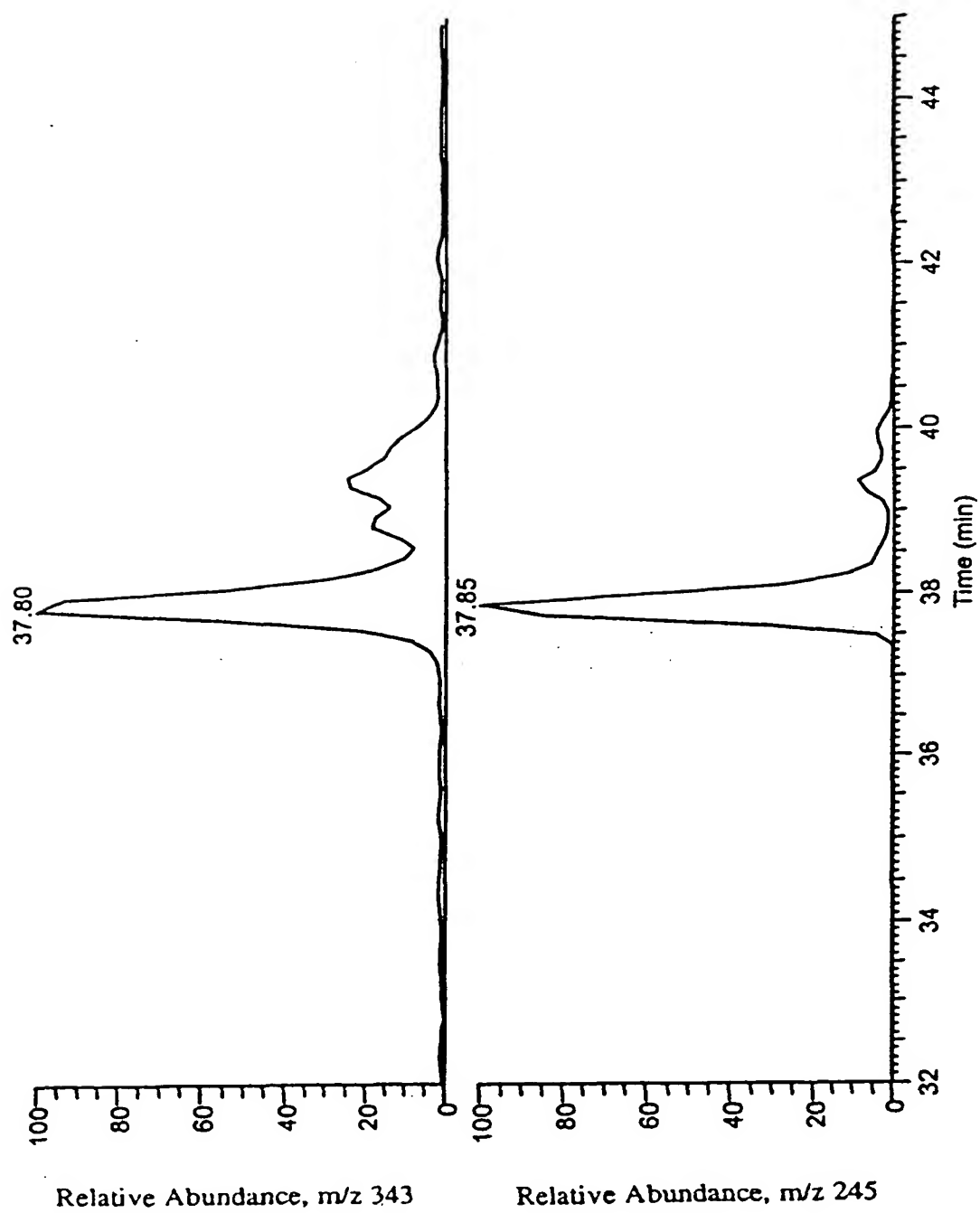


FIG. 14J

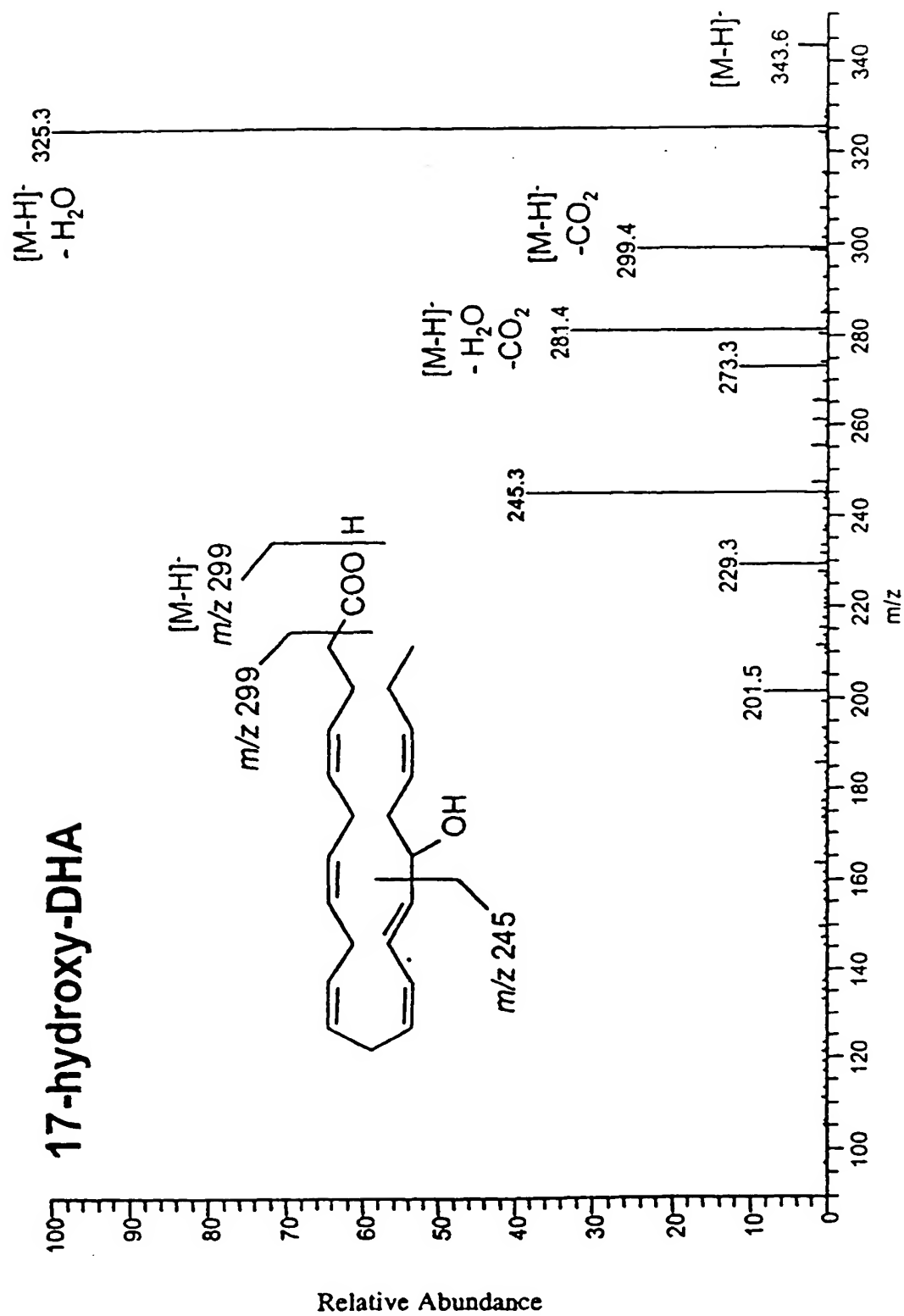


FIG. 14K

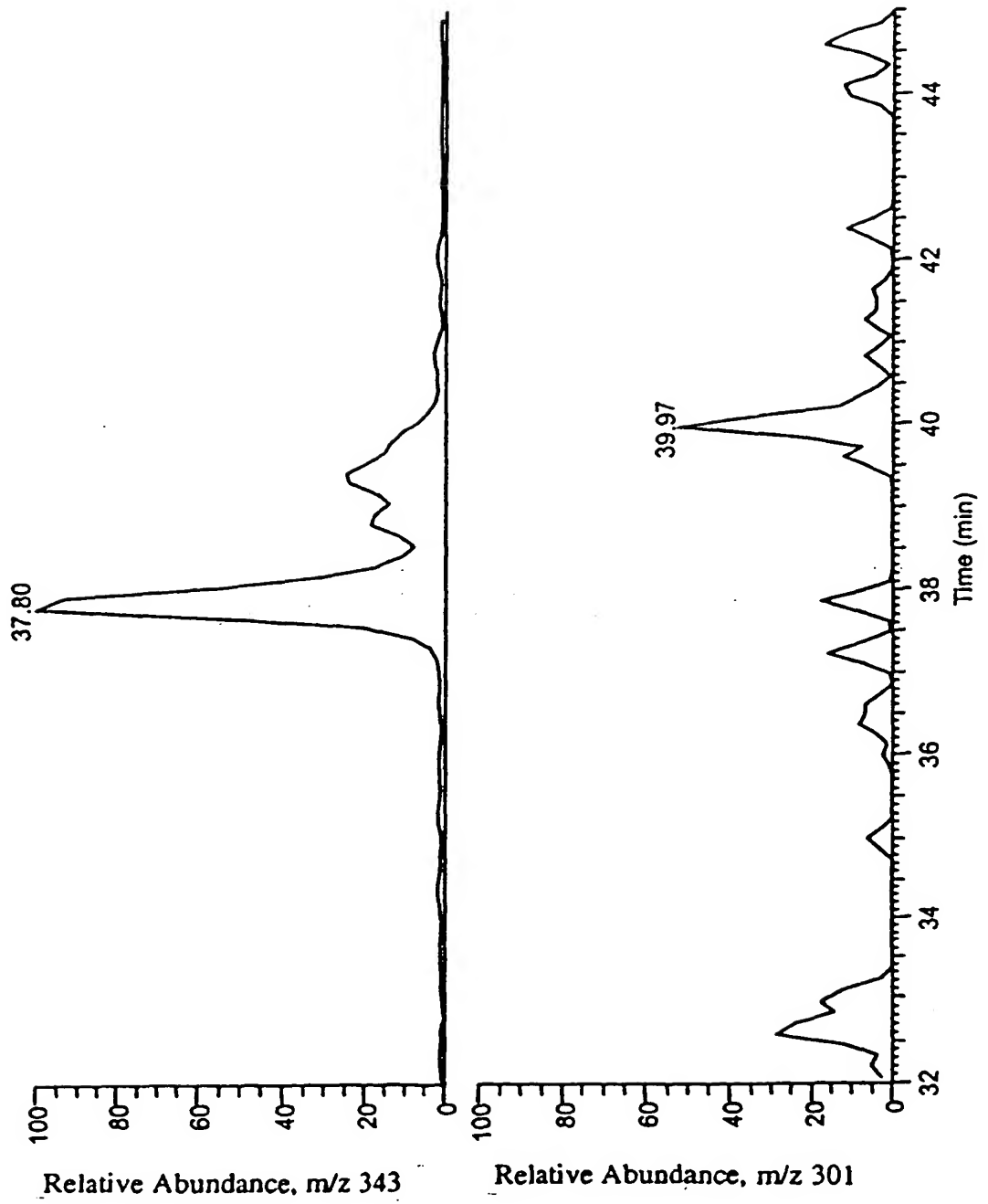


FIG. 14L

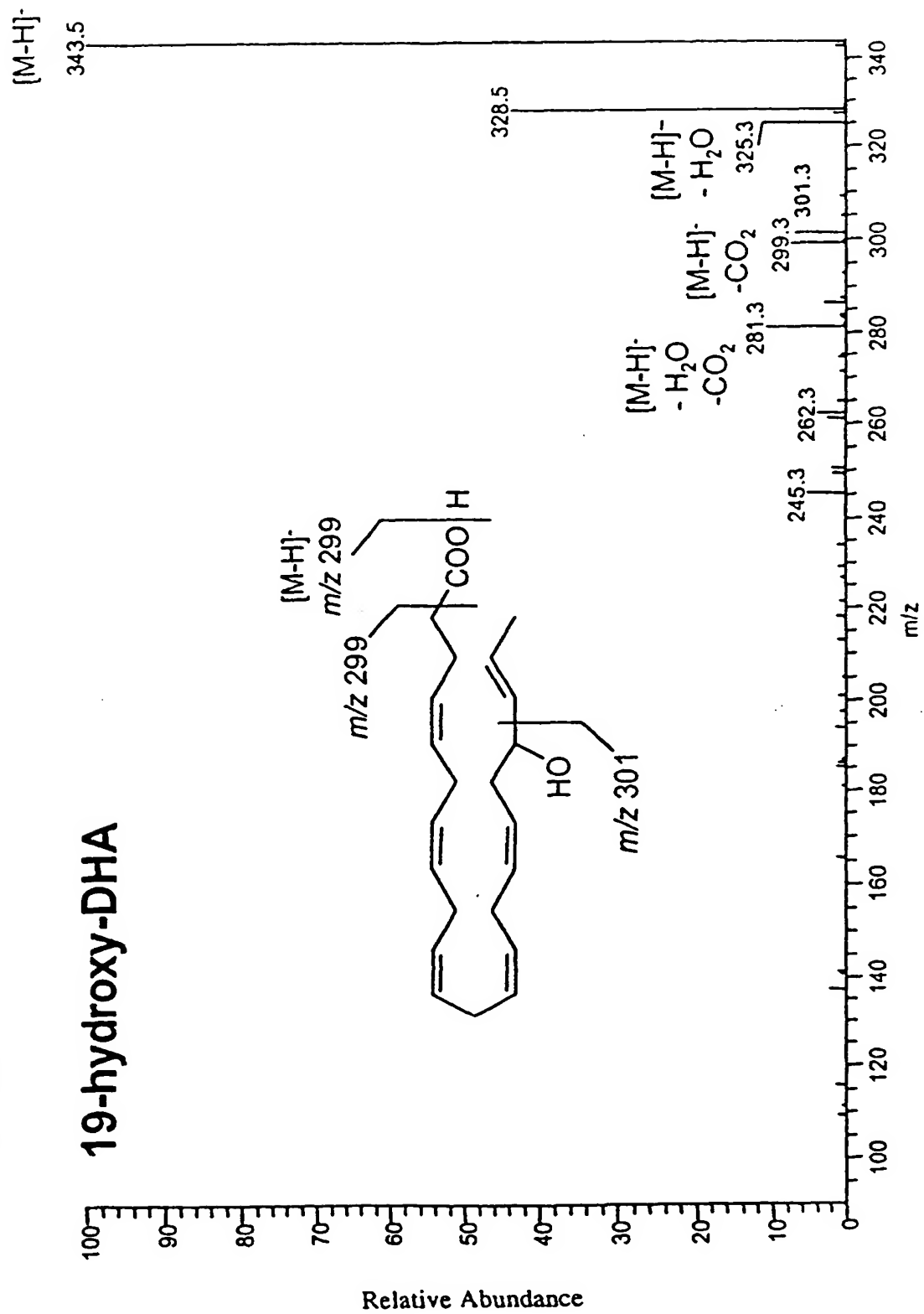


FIG. 14M

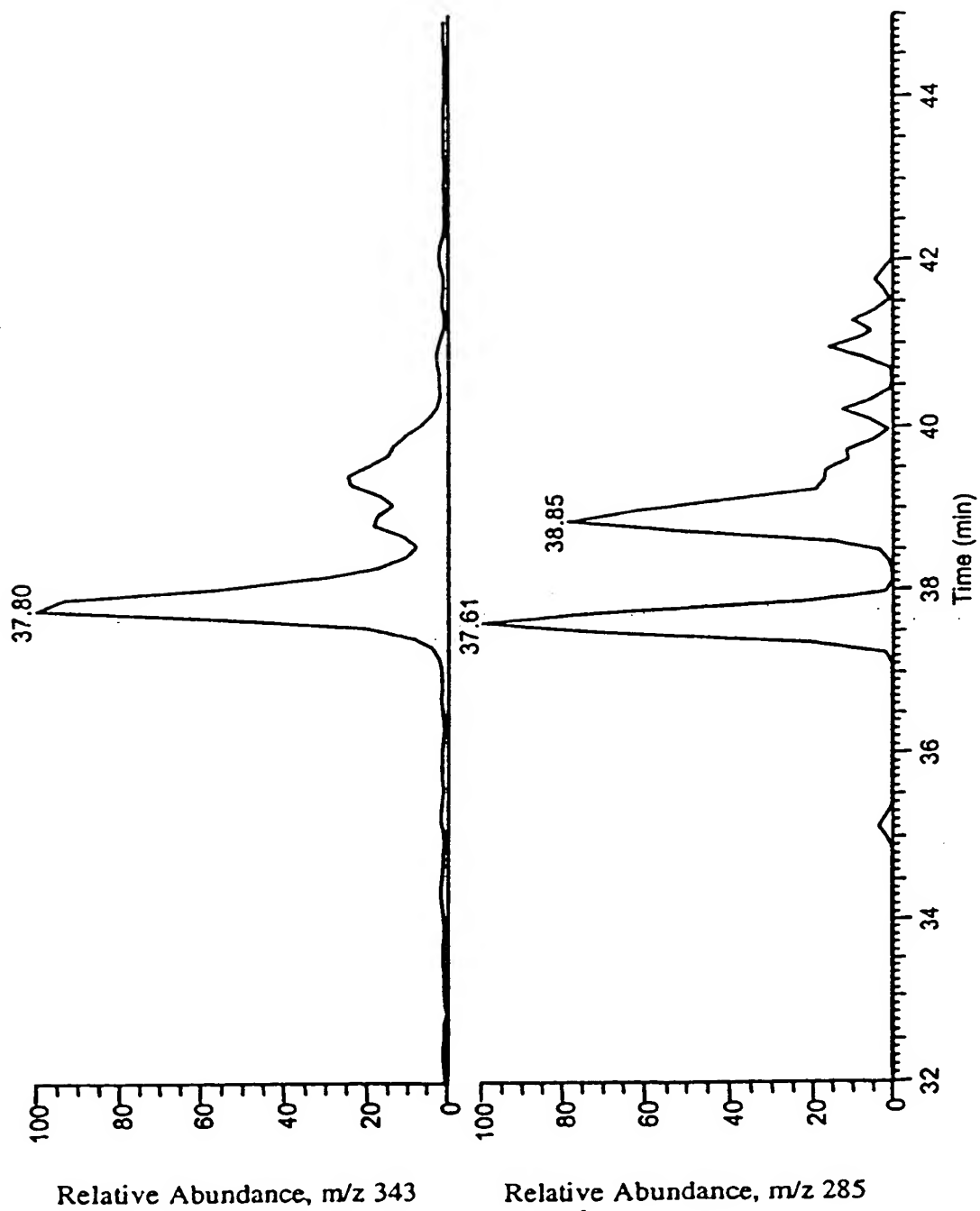


FIG. 14N

20-hydroxy-DHA

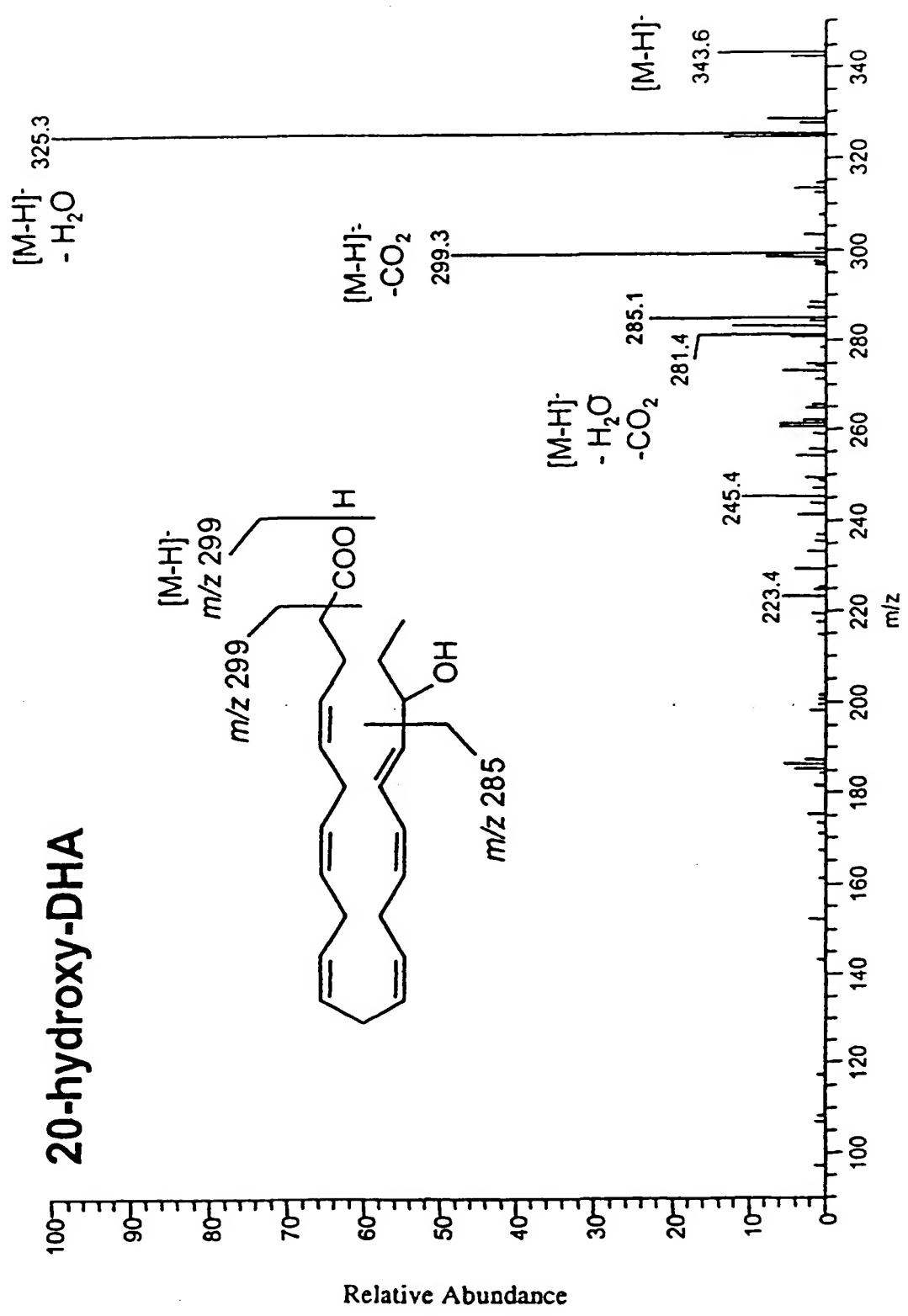


FIG. 15

PUFA & ASA-COX-2

